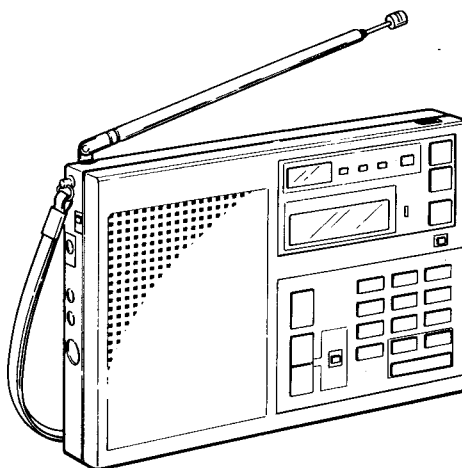


ICF-7600DS

SERVICE MANUAL

*AEP Model
UK Model
E Model
AUS Model*



SPECIFICATIONS

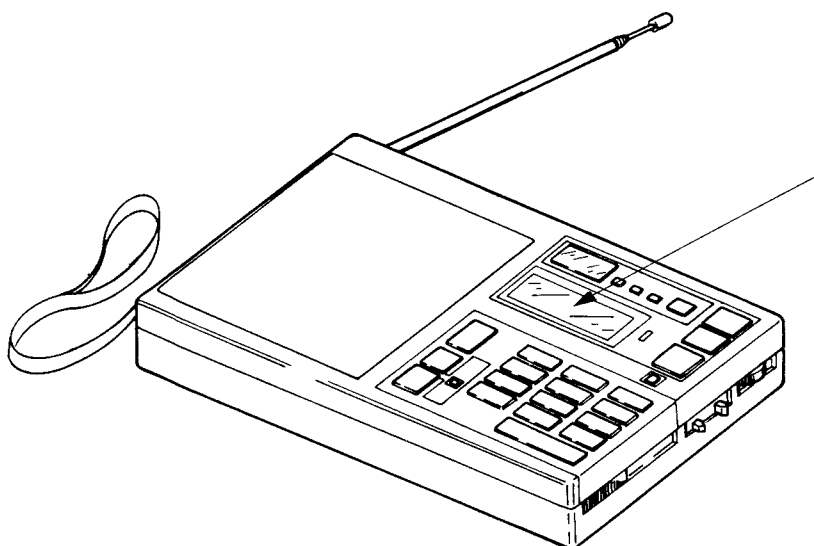
Circuit system	FM: Superheterodyne AM: Dual conversion superheterodyne	Battery life	Radio: approx. 12 hours of listening for four hours a day at a normal volume, using Sony SUM-3(NS) batteries
Frequency range	AEP, UK, E, AUS model: FM76.0 – 108.0 MHz FM87.6 – 108.0 MHz (DENMARK, NORWAY, SWEDEN) MW522 – 1,611 kHz LW153 – 519 kHz SW1,615– 29,995 kHz MIDDLE EASTS, G-AEP model: FM87.6 – 108.0 MHz MW522 – 1,611 kHz LW153 – 519 kHz SW1,615– 26,100 kHz SSB/CW153 – 26,100 kHz (G-AEP) Saudi Arabia model: FM87.6 – 108.0 MHz MW531 – 1,611 kHz LW153 – 282 kHz SW1,615– 26,100 kHz	Dimensions	Approx. 184.5 × 118.5 × 32 mm (w/h/d) (7 ³ / ₈ × 4 ³ / ₄ × 1 ⁵ / ₁₆ inches) including projecting parts and controls
		Weight	Approx. 640 g (1.4 lb) including batteries
		Accessories supplied	Earphone (1) SW external antenna (1) AC-240 ac power adaptor (1) Wave handbook (1), Antenna connector (1), Carrying case (1)
Antennas	Telescopic antenna (FM/SW) Built-in ferrite bar antenna (MW/LW) External antenna terminal (FM/LW/MW/SW)	SAFETY-RELATED COMPONENT WARNING!! COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.	
Speaker	Approx. 7.7 cm (3 ¹ / ₈ inches) diameter		
Power output	200mW (at 10% harmonic distortion, for United Kingdom) 400mW (at 10% harmonic distortion, for other countries)		
Outputs	Recording output jack (mini-jack) output level 0.775 mV (–60 dB) output impedance 1 kilohm Earphone jack (mini-jack) for 8ohm earphone		
Power requirements	Radio: 6 V dc Four R6 (size AA) batteries Supplied AC-240 ac power adaptor (110, 120, 220 or 240 V ac adjustable, 50/60 Hz) Optional DCC-127A or DCC-240 car battery cord for use with 12 V or 24 V car battery, respectively Computer back up/clock: 3 V dc, two R6 (size AA) batteries	FM/LW/MW/SW PLL SYNTHESIZED RECEIVER SONY®	



FEATURES

- An FM/LW/MW/SW portable BCL (Broadcasting Listener) radio with world-wide band coverage.
- Quartz controlled PLL (Phase Locked Loop) synthesizer system uses a microcomputer to make pinpoint tuning easy. The tuned frequency is digitally displayed.
- Choice of direct, preset, scan or manual tuning.
- Up to ten stations can be preset so that they can be tuned in with the press of a button.
- Band select function to immediately search the broadcast band such as FM, LW, MW and SW, and to facilitate scan tuning and manual tuning.
- Timer standby function to receive a desired broadcast at the desired time.
- Sleep timer turns the radio off automatically in 65 minutes.
- Three different power sources: internal batteries, house current or a car battery.

● Identification Of Each Model



AEP, UK, E, AUS model:

FM76.0 – 108.0 MHz

FM87.6 – 108.0 MHz (DENMARK, NORWAY, SWEDEN)

MW522 – 1,611 kHz

LW153 – 519 kHz

SW1,615– 29,995 kHz

MIDDLE EASTS, G-AEP model:

FM87.6 – 108.0 MHz

MW522 – 1,611 kHz

LW153 – 519 kHz

SW1,615– 26,100 kHz

SSB/CW153 – 26,100 kHz (G-AEP)

Saudi Arabia model:

FM87.6 – 108.0 MHz

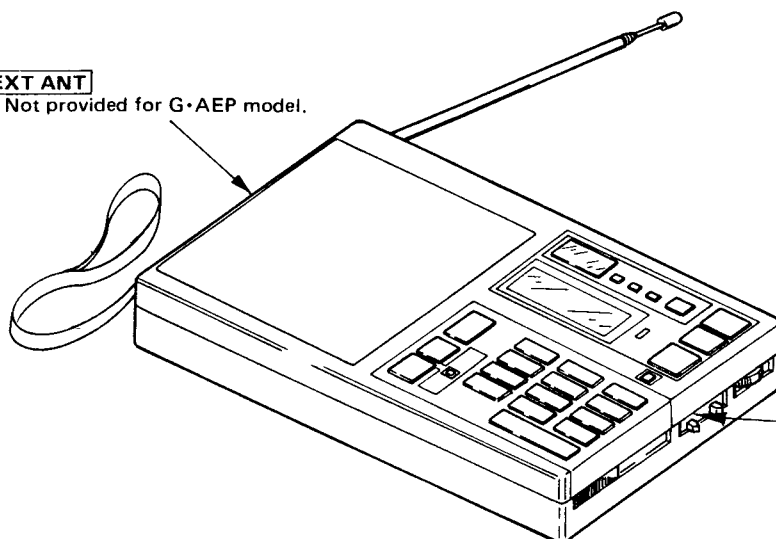
MW531 – 1,611 kHz

LW153 – 282 kHz

SW1,615– 26,100 kHz

EXT ANT

Not provided for G-AEP model.



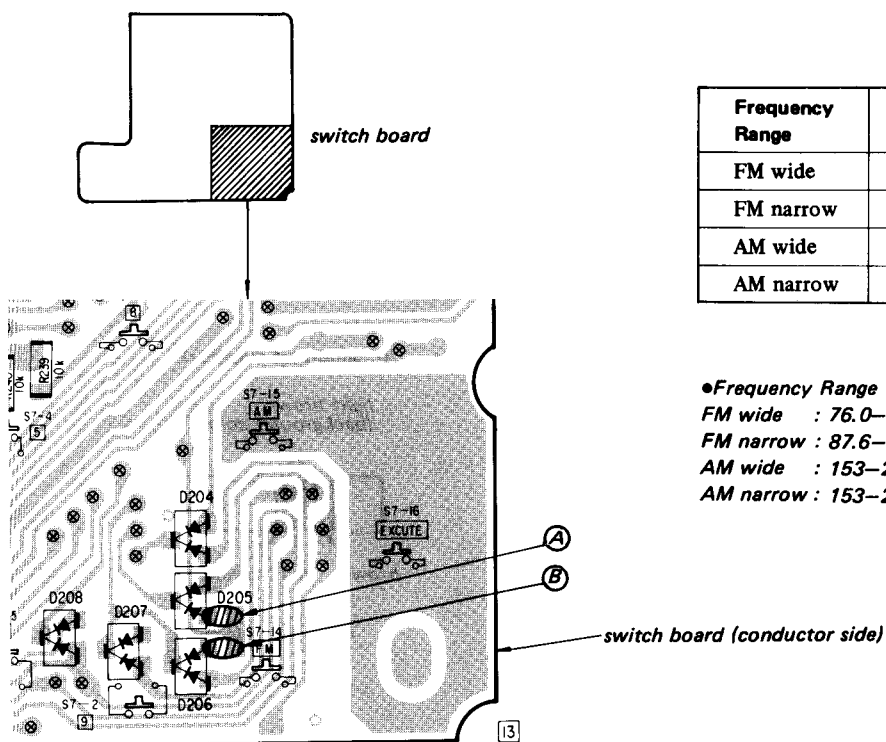
SSB

Not provided for ME model.

SERVICING NOTES

1. FREQUENCY RANGE ADJUSTMENT

When replacing switch board, adjust frequency range by solder-bridging or opening adjustment patterns according to original patterns.



Frequency Range	Bridge (A)	Bridge (B)
FM wide	open	—
FM narrow	bridge	—
AM wide	—	open
AM narrow	—	bridge

•Frequency Range

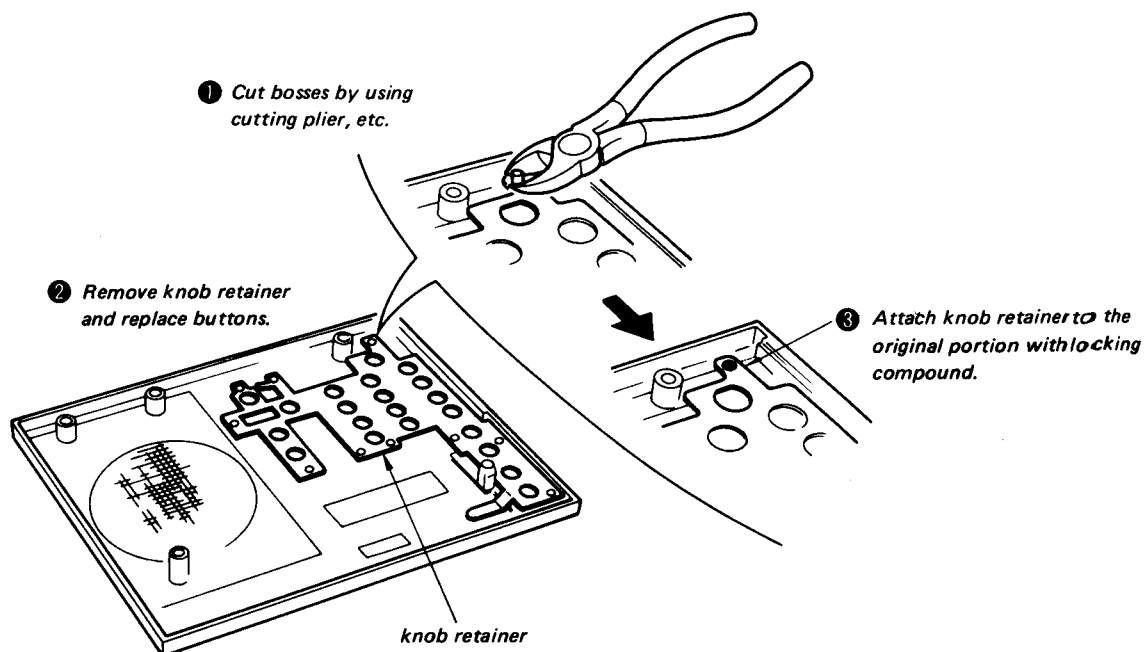
FM wide : 76.0—108.0 MHz

FM narrow : 87.6—108.0 MHz

AM wide : 153—29,995 kHz

AM narrow : 153—26,100 kHz

2. BUTTONS REPLACEMENT



3. MELF (Metal Electrodes Face-Bonding) Components

Warning

If MELF components are forcibly removed from the printed circuit board with pincers or pliers, the circuit board pattern is likely to peel away. Always remove MELF components according to the procedure described on the next page. Replace MELF components with the lead type components.

MELF components are soldered directly to the surface of the printed circuit board.

MELF resistors and capacitors have the same dimensions and are distinguished by their background colors: light brown for resistors, and pink or light green for capacitors.

The MELF resistor color coding is the same as for conventional resistors, and MELF capacitor color coding is the same as for tube-type ceramic capacitors.

Components larger than resistors and without a color code are cross conductors, which are used instead of jumper wires.

1. Structure

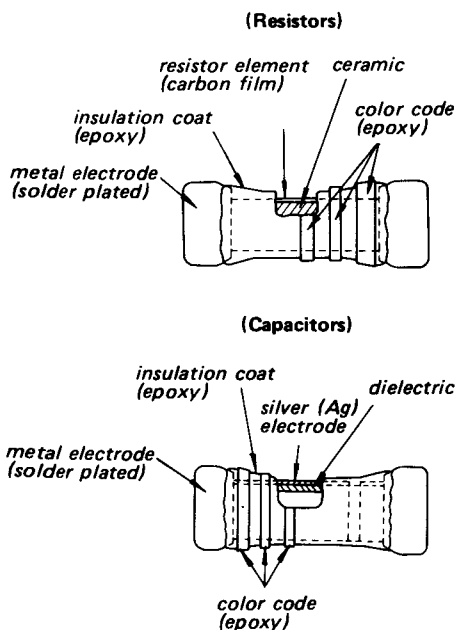
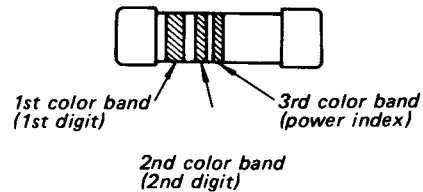
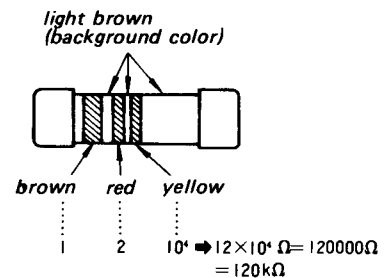


Fig. 1

2. Color Code Reading



(Example of Resistor)



(Example of Capacitor)

background color { pink 25 V voltage resistance
light green 50 V voltage resistance

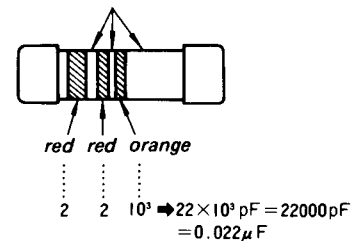


Fig. 2

3. How to Remove MELF Components and Mount Replacements

Use a soldering iron of at least 40W with an iron tip 4 mm in diameter and file the tip down to the angle shown in the diagram.

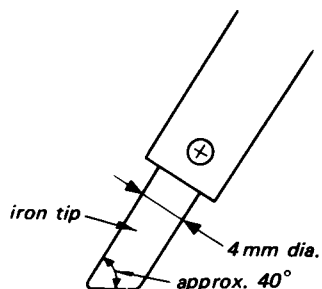


Fig. 3

4. Use lead type resistors to replace the MELF components.

This replacement may be mounted with short leads (see Fig. 5).

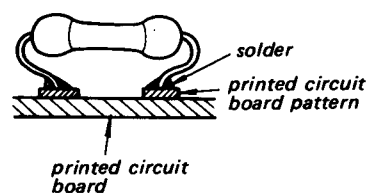


Fig. 5

1. Bring the flat surface of the soldering iron in equal contact with both soldered ends of the component.
2. The solder should melt in about 4 seconds. (The solder will melt more readily if a small amount of solder is attached to the iron tip and the iron tip is placed against the component.)
3. Once the solder has melted, tap the component aside with the tip of the soldering iron, and remove it from the board.

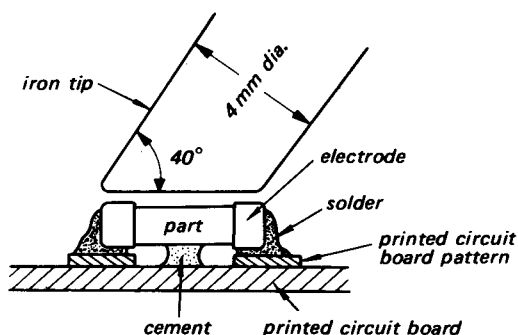


Fig. 4

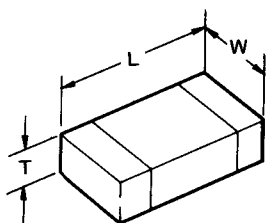
*Note: Use 3216 type chip components to replace the MELF capacitor components.
See page 6 for mounting of chip components.*

4. Chip components

Chip components include resistors, capacitors, transistors, diodes, coil and adjustable resistors.

In this section, the types of resistors, ceramic capacitors, transistors and diodes which are used most frequently will be described.

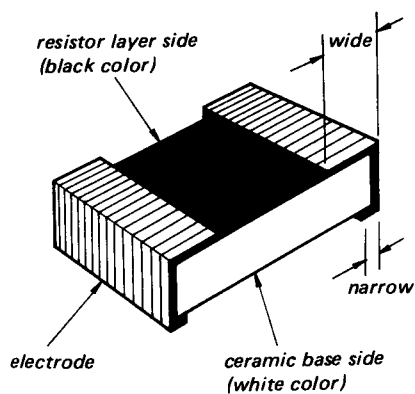
Dimension of transistors and capacitors



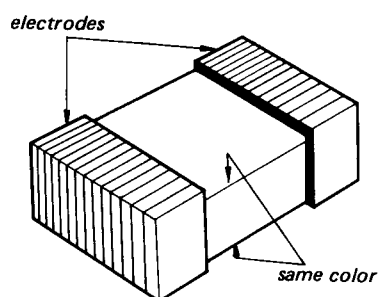
(Unit: mm)

Type	L	W	T
3216	3.2	1.6	0.45 ~ 0.6
2125	2.0	1.25	0.35 ~ 0.5

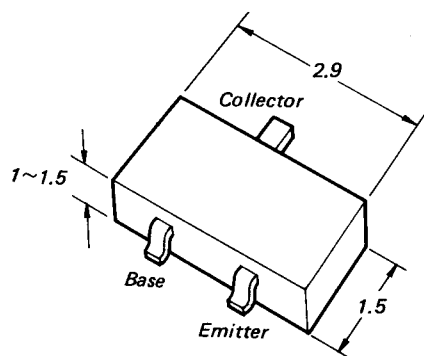
Identification



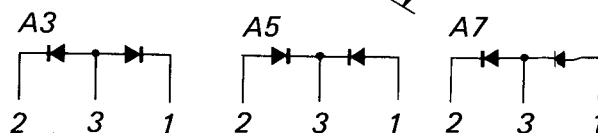
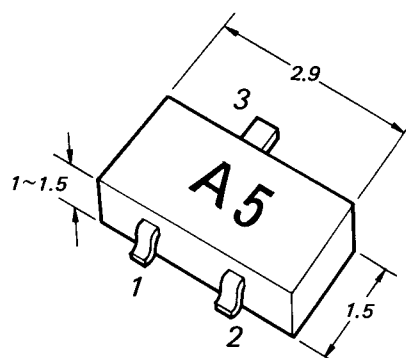
Resistor



Laminated Ceramic Capacitor



Transistor



Diode

Replacing chip components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

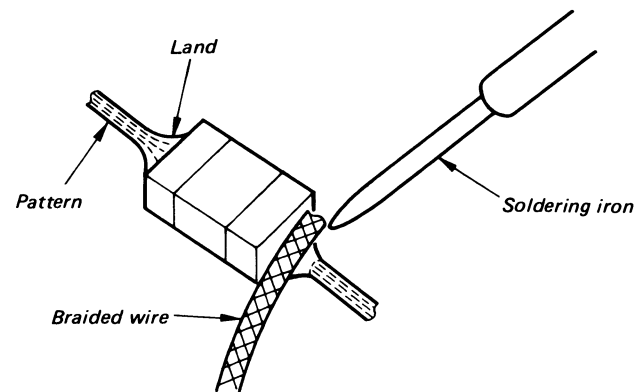
Precautions for replacement

1. Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.
2. Never re-use a disconnected chip component. Dispose of all old chip components.
3. To protect the chip component, heating time for attaching the component should be within 3 seconds.

Removing chip components

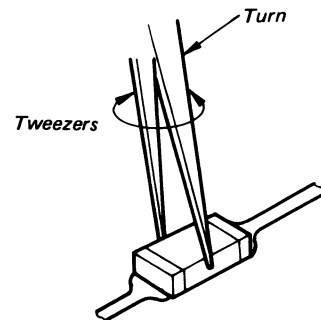
(1) Removing solder at electrode

Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off. Never re-use a disconnected chip component.



(3) Smoothing the soldered surface

After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

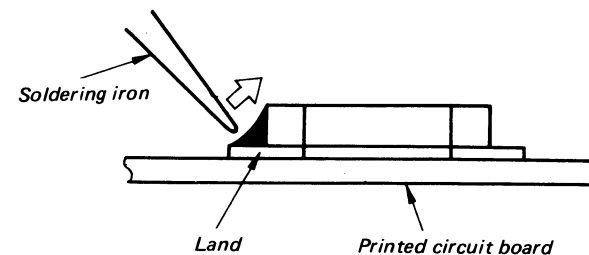
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



(2) Speedy soldering

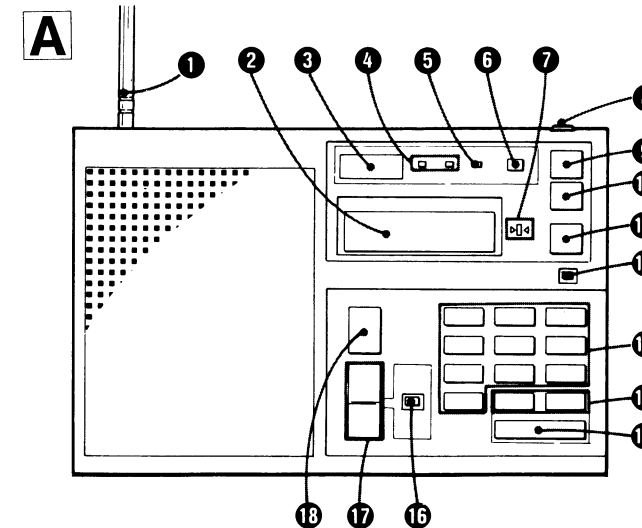
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side

Solder the electrode on the other side in the same way as in (2) above.

LOCATION AND FUNCTION OF CONTROLS

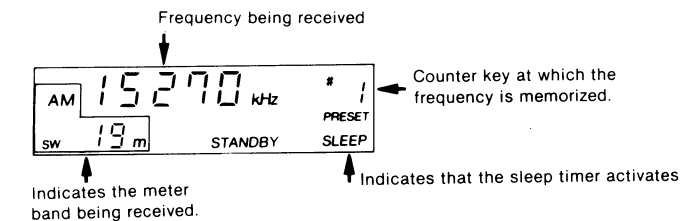


1 Telescopic antenna

Used for both FM and SW reception.

2 Frequency display

Displayed as follows:



3 Time display

Displayed by 24 hours.

The timer-setting time will be displayed when the SET button is pressed.

4 Time adjust button

Press the H (hour) button and M (minute) button while pressing the TIME SET button to adjust the clock to the current time.

5 SET (timer setting) button

Press the H button and M button while pressing the SET button to set the timer.

6 STANDBY (timer standby) button

Press this button after setting the timer.

7 TUNING indicator

The indicator illuminates when a signal is received.

8 MAIN POWER switch

Set this switch to ON before pressing the ON button to turn on the radio. Set it to OFF when carrying the radio. With this switch at OFF, the power will not be turned on even if the ON button is pressed accidentally.

9 ON button

Press this button to turn the radio on.

10 SLEEP timer button

Press this button to set the sleep timer.

11 OFF button

Press this button to turn the radio off.

12 ENTER key

Used to input a station to one of the counter keys for preset tuning.

13 EXECUTE key

After inputting the desired frequency with the FM or AM key and the counter keys, press this key to tune the frequency in. This is called "direct tuning".

14 FM/AM key

Used to input a frequency for direct tuning.

15 Counter keys

Used to input a frequency and preset it. If you punch in a desired frequency with the FM or AM key and the counter keys, the frequency will appear in the frequency display.

16 BAND SELECT key

Used with the (plus) key or (minus) key to continuously search a broadcast band such as FM, LW, MW and SW, or to search the meter bands of SW.

17 (plus)/(minus) key

Used with the BAND SELECT key to search the desired broadcast band and tune the frequency in correctly for manual tuning. If you press (plus) key or (minus) key once, the tuned frequency will be increased or decreased by the following intervals:

FM: 0.1 MHz MW: 9 kHz
LW: 3 kHz SW: 5 kHz

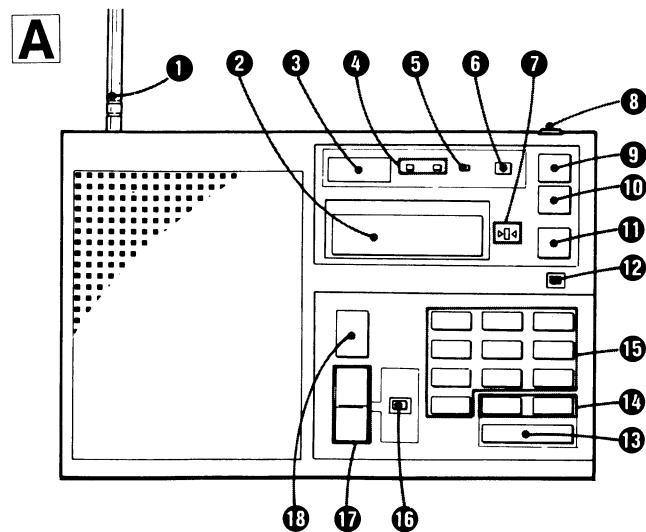
If you keep the key depressed, the frequency changes continuously.

The MW interval of 9 kHz is preset at the factory but you can change to the interval of 10 kHz to match the MW frequency allocation system of the country where you will use the unit.

18 START/STOP key

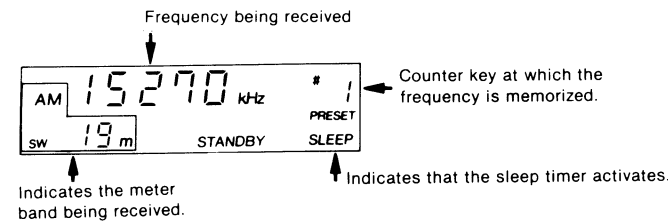
If you press this key, the radio begins searching for a station, scanning the broadcast band of the frequency inputted by direct tuning or searched for by manual tuning. Scanning stops automatically for 1.5 seconds when a station is received. Press the START/STOP key again to stop the scanning.

LOCATION AND FUNCTION OF CONTROLS



1 Telescopic antenna
Used for both FM and SW reception.

2 Frequency display
Displayed as follows:



3 Time display
Displayed by 24 hours.
The timer-setting time will be displayed when the SET button is pressed.

4 Time adjust button
Press the H (hour) button and M (minute) button while pressing the TIME SET button to adjust the clock to the current time.

5 SET (timer setting) button
Press the H button and M button while pressing the SET button to set the timer.

6 STANDBY (timer standby) button
Press this button after setting the timer.

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The indicator illuminates when a signal is received.

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Set this switch to ON before pressing the ON button to turn on the radio.
Set it to OFF when carrying the radio.
With this switch at OFF, the power will not be turned on even if the ON button is pressed accidentally.

9 ON button
Press this button to turn the radio on.

10 SLEEP timer button
Press this button to set the sleep timer.

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Press this button to turn the radio off.

12 ENTER key
Used to input a station to one of the counter keys for preset tuning.

13 EXECUTE key
After inputting the desired frequency with the FM or AM key and the counter keys, press this key to tune the frequency in.
This is called "direct tuning".

14 FM/AM key
Used to input a frequency for direct tuning.

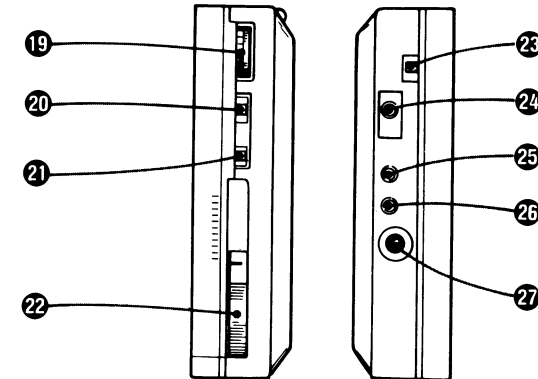
15 Counter keys
Used to input a frequency and preset it. If you punch in a desired frequency with the FM or AM key and the counter keys, the frequency will appear in the frequency display.

16 BAND SELECT key
Used with $\oplus$ (plus) key or $\ominus$ (minus) key to continuously search a broadcast band such as FM, LW, MW and SW, or to search the meter bands of SW.

17 $\oplus$ (plus) / $\ominus$ (minus) key
Used with the BAND SELECT key to search the desired broadcast band and tune the frequency in correctly for manual tuning.
If you press $\oplus$ key or $\ominus$ once, the tuned frequency will be increased or decreased by the following intervals:
FM: 0.1 MHz MW: 9 kHz
LW: 3 kHz SW: 5 kHz
If you keep the key depressed, the frequency changes continuously.

The MW interval of 9 kHz is preset at the factory but you can change to the interval of 10 kHz to match the MW frequency allocation system of the country where you will use the unit.

18 START/STOP key
If you press this key, the radio begins searching for a station, scanning the broadcast band of the frequency inputted by direct tuning or searched for by manual tuning. Scanning stops automatically for 1.5 seconds when a station is received. Press the START/STOP key again to stop the scanning.



19 FINE TUNING control
Adjust this control for better reception of LW, MW or SW.

20 AM MODE selector
NORM: Normally set the selector to this position.
FINE: Set to this position for better reception of LW, MW and SW and adjust the tuning with the FINE TUNING control.
SSB: For SSB/CW reception, set to this position and adjust the tuning with the FINE TUNING control.

21 TONE control
NEWS: For listening to news.
MUSIC: For listening to music.

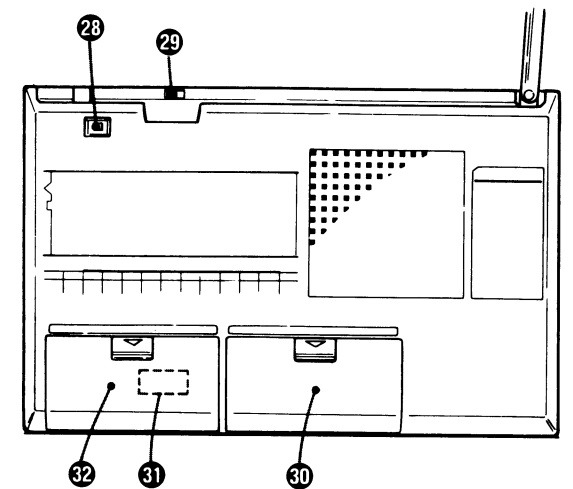
22 VOLUME control

23 SENS (FM/AM sensitivity) selector
Normally set this selector to HIGH. Set it to LOW when the sound is distorted due to strong signals or when there is interference.

24 EXT ANT (external antenna) jack
Connect the supplied SW external antenna or the external antenna connector.

25 $\boxtimes$ Recording output jack
For recording audio radio programs with a tape recorder, connect the optional RK-G69 connecting cord.

26 Earphone jack
For private listening with an earphone. When the earphone is plugged in, the speaker is automatically disconnected.



27 DC IN 6 V (external power input) jack
For operation from an external power source.

28 TIME SET button
Used with H and M button at the front to adjust the current time.

29 12/24 hour selector
You can choose either 12 hour indication or 24 hour indication by switching this selector.

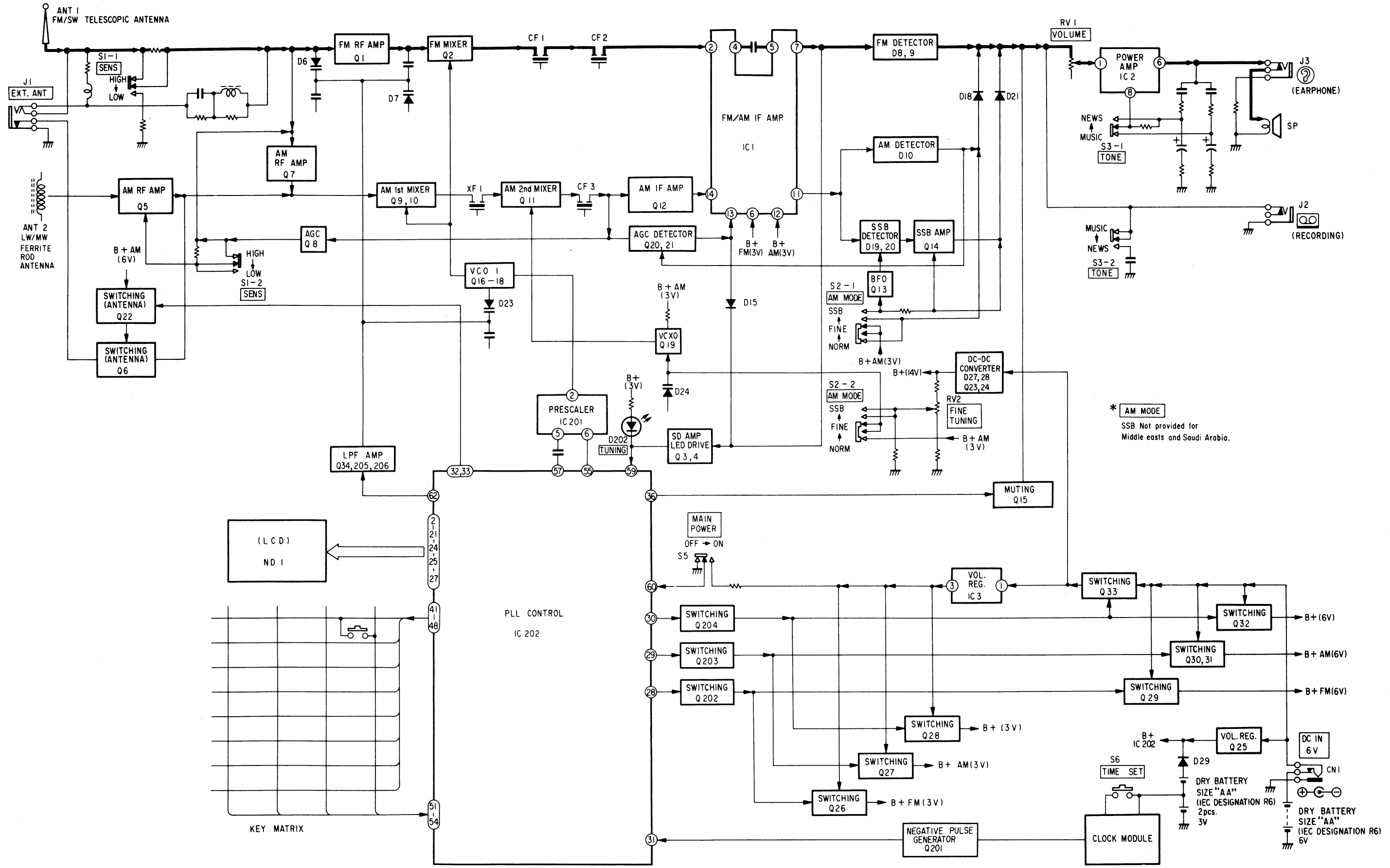
30 Radio battery compartment

31 9 kHz/10 kHz selector (in the computer back up/clock battery compartment)
Set this selector according to the MW frequency allocation system of your country.

32 Computer back up/clock battery compartment

SECTION 1
OUTLINE

1-1. BLOCK DIAGRAM

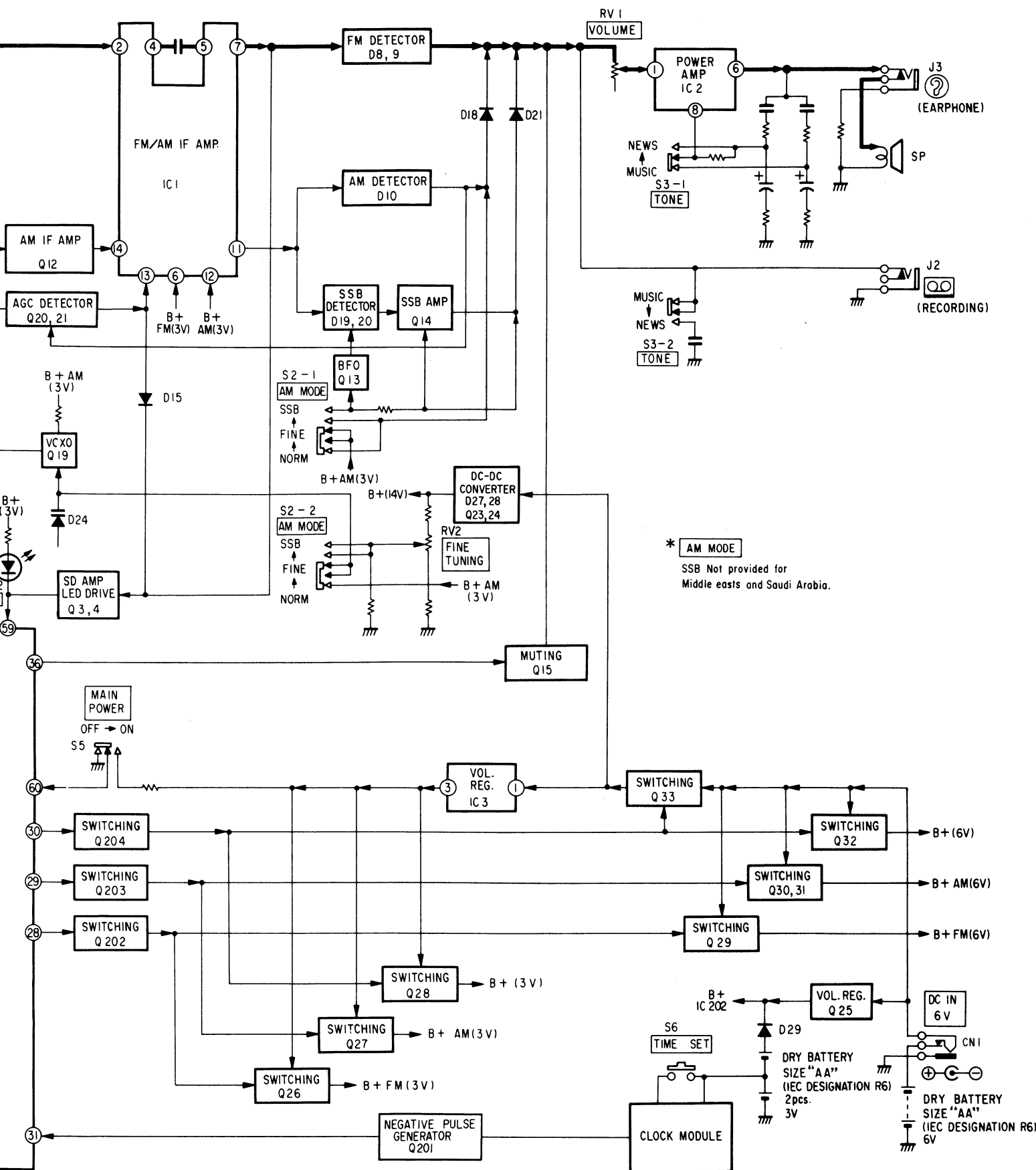


• IC201's (PLL

Terminal No.	Terminal Name
1	-
2	8a
3	7c
4	7a
5	6a
6	5c
7	5b
8	5a
9	3b
10	4c
11	4b
12	4a
13	3a
14	2c
15	2b
16	2a
17	1c
18	1b
19	1a
20	7b
21	9a
22	VI
23	VH
24	COM
25	COM
26	VD
27	COM
28	FM
29	AM
30	POW
31	POW

• KEY M

output
(41)
(42)
(43)
(44)
(45)
(46)
(47)
(48)



• IC201's (PLL CONTROL IC μ PC1706G-511, μ PD1706G-519) TERMINAL FUNCTIONS

Terminal No.	Terminal Name	Function	Terminal No.	Terminal Name	Function
1	—	This terminal is not used on this set.	32	LW	Signal output for antenna switching. LW mode: L otherwise: H
2	8a	Signal output for LCD segment.	33	MW	Signal output for antenna switching. MW mode: L otherwise: H
3	7c		34, 35	—	These terminals are not used on this set.
4	7a		36	MUTE	Signal output for sound muting. mute:H otherwise:L
5	6a		37-40	—	These terminals are not used on this set.
6	5c		41	KS0	Signal output for key matrix scanning.
7	5b		42	KS1	
8	5a		43	KS2	
9	3b		44	KS3	
10	4c		45	KS4	
11	4b		46	KS5	
12	4a		47	KS6	Clock pulse oscillating terminal.
13	3a	Signal output for LCD voltage check.	48	KS7	
14	2c		49	XI	
15	2b		50	XO	Signal input for key matrix scanning.
16	2a		51	K3	
17	1c		52	K2	
18	1b		53	K1	Signal output for prescaler control. This terminal is not used on this set.
19	1a		54	K0	
20	7b		55	PSC	
21	9a	Signal output for LCD common.	56	—	Signal input for swallow pulse.
22	VL		57	FM in	Power supply terminal. (3V)
23	VH		58	VDD	Signal input for station detector. tuned: L detuned: H
24	COM2	Power supply terminal. (3V)	59	SD	Signal input for chip enable. This terminal is not used on this set.
25	COM1		60	CE	Signal output for PLL error. This terminal is not used on this set.
26	VDD		61	—	Ground terminal.
27	COM0	Signal output for FM power supply switching. FM mode: H otherwise: L	62	ER	
28	FM	Signal output for AM power supply switching. AM mode: H otherwise: L	63	—	
29	AM	Signal output for power supply switching. POWER ON: H otherwise:L	64	GND	
30	POWER OUT	Power turns on when negative pulse is applied to this terminal at the STANDBY mode.			
31	POWER IN				

• KEY MATRIX

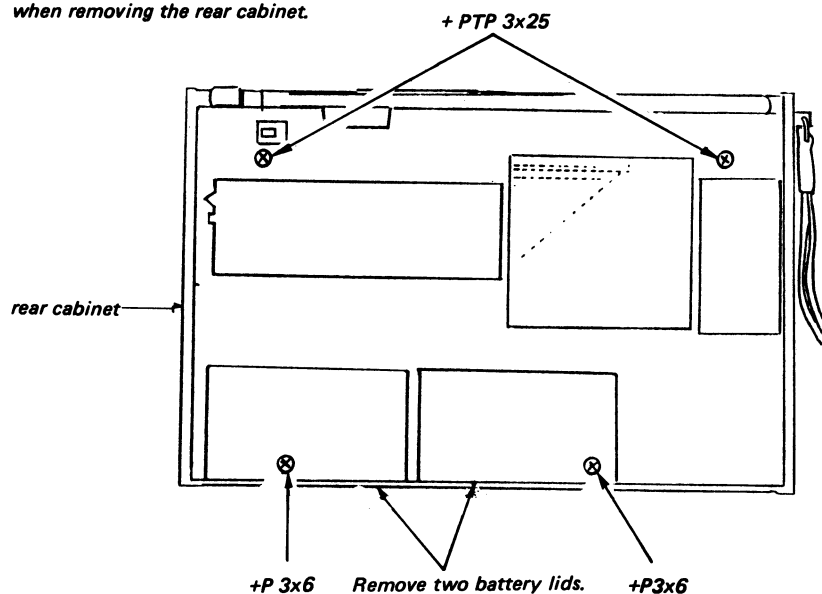
input output	(51) K3	(52) K2	(53) K1	(54) K0
(41) KS0	—	—	—	9 kHz 10 kHz step frequency switch
(42) KS1	ENTER	BAND SELECT	—	—
(43) KS2	0 (10 key)	1 (10 key)	2 (10 key)	3 (10 key)
(44) KS3	—	FM	AM	EXECUTE
(45) KS4	—	(down)	(up)	SCAN TUNING
(46) KS5	STANDBY	SLEEP	ON	OFF
(47) KS6	4 (10 key)	5 (10 key)	6 (10 key)	7 (10 key)
(48) KS7	8 (10 key)	9 (10 key)	—	—

SECTION 2 DISASSEMBLY

- Follow the disassembly procedure in the numerical order given.

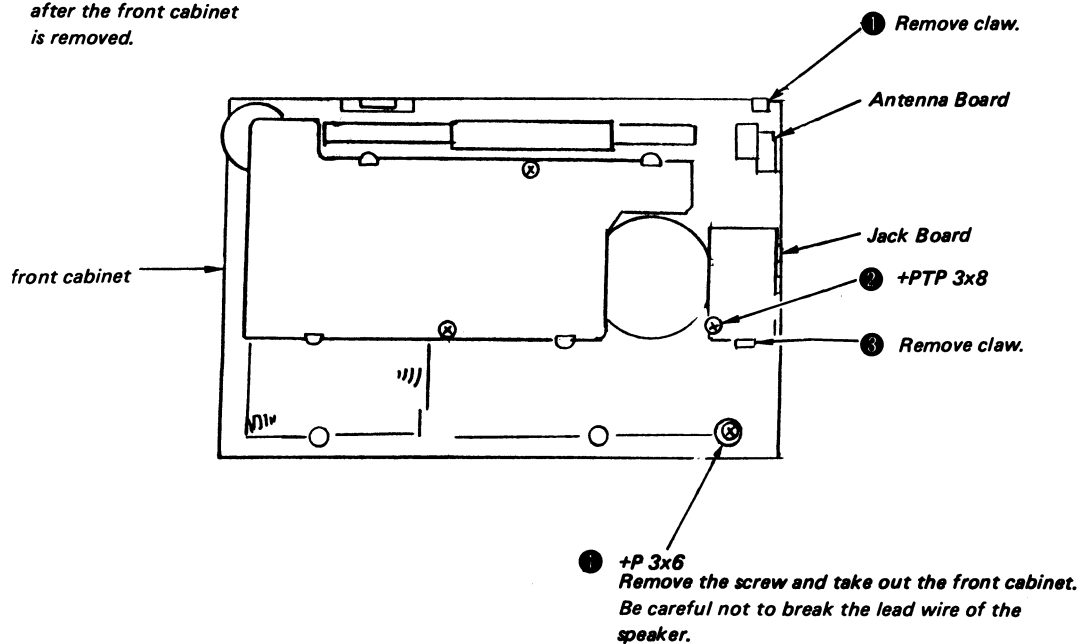
REAR CABINET

Note: Be careful not to break the lead wire of telescopic antenna when removing the rear cabinet.

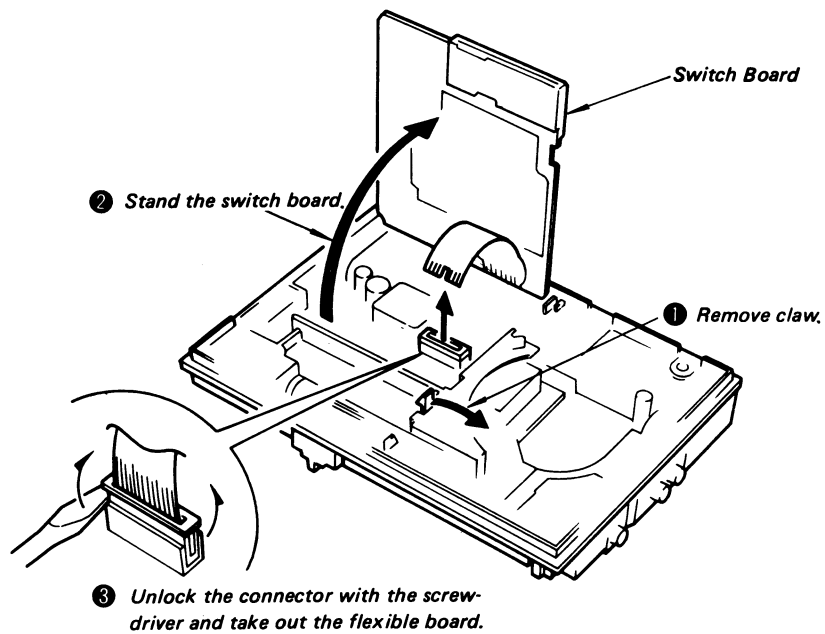


FRONT CABINET/ANTENNA BOARD/JACK BOARD

Note: Jack board should be removed after the front cabinet is removed.

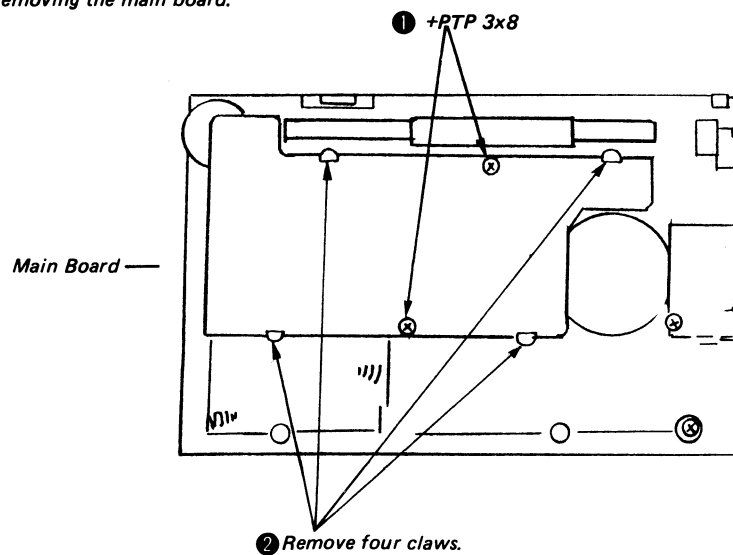


SWITCH BOARD



MAIN BOARD

Note: Be careful not to break the lead wire when removing the main board.

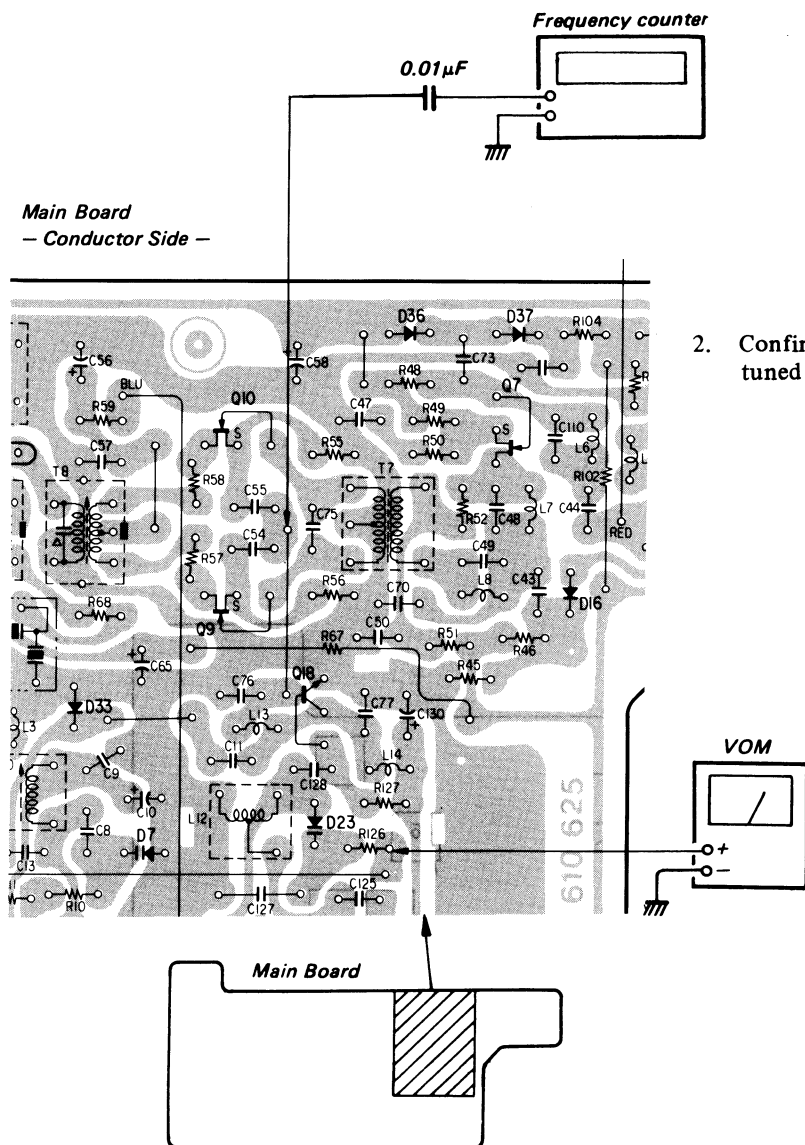


SECTION 3 ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENTS

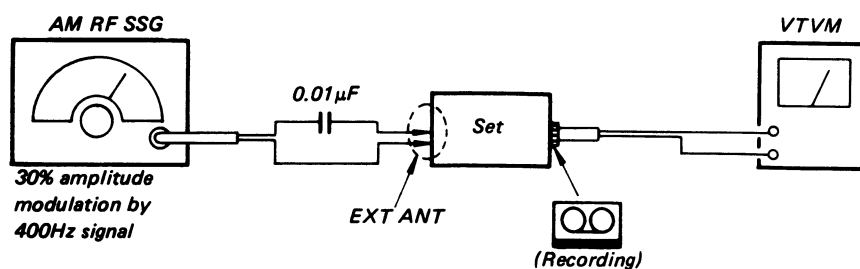
PLL FREQUENCY/LPF OUTPUT LEVEL CHECK

1. Confirm the frequency counter reading is 100.00 MHz when tuned to FM89.30 MHz

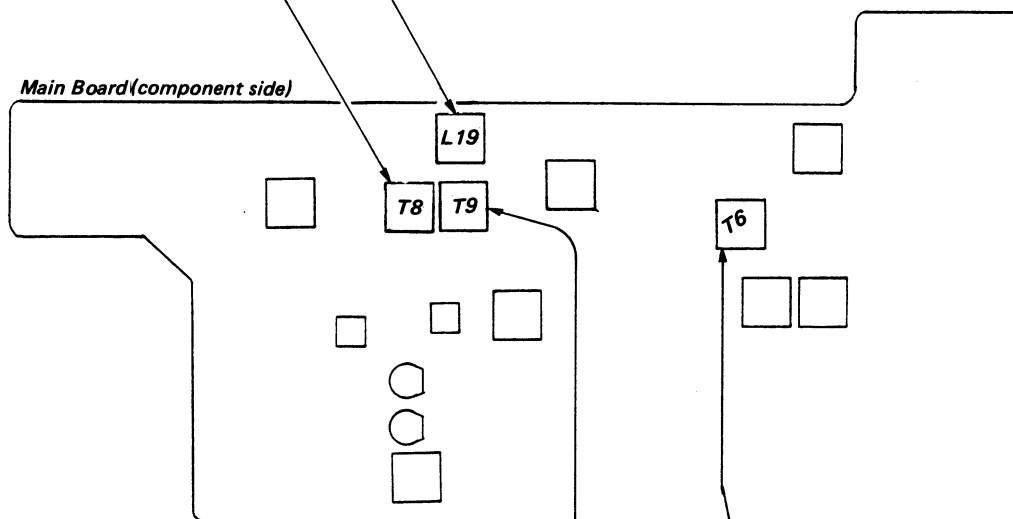


2. Confirm the 9-11V reading on VOM when tuned to FM108.00 MHz

AM IF ALIGNMENT



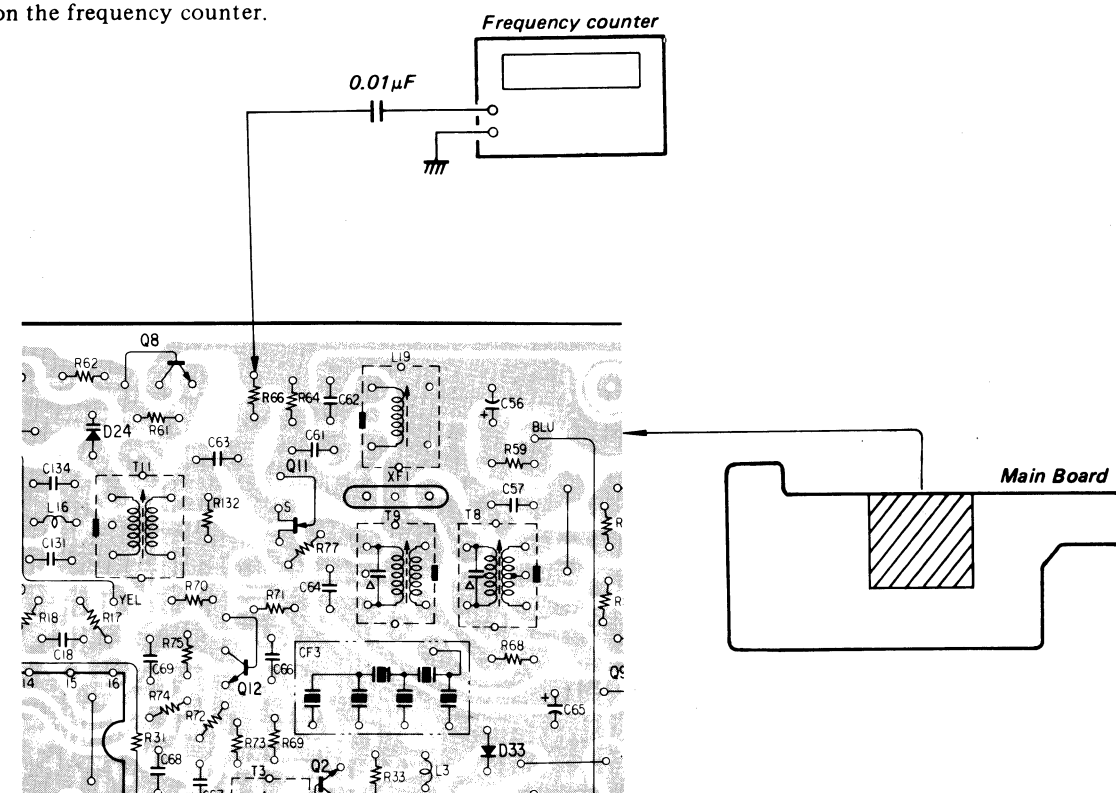
AM 1st IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
T8	L19



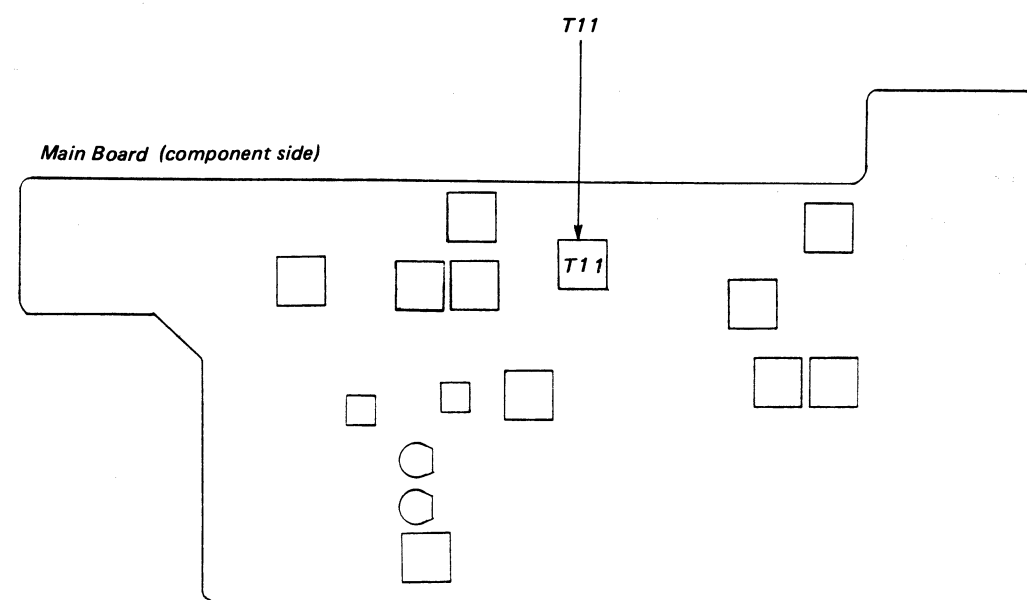
T9	T6
Adjust for a maximum reading on VTVM.	
AM 2nd IF ALIGNMENT	

AM 2nd IF VCXO ADJUSTMENT

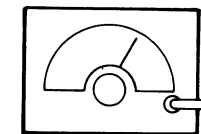
Adjust T11 for 55.395 MHz reading on the frequency counter.



Main Board - Conductor Side -

**FM IF ALIGNMENT**

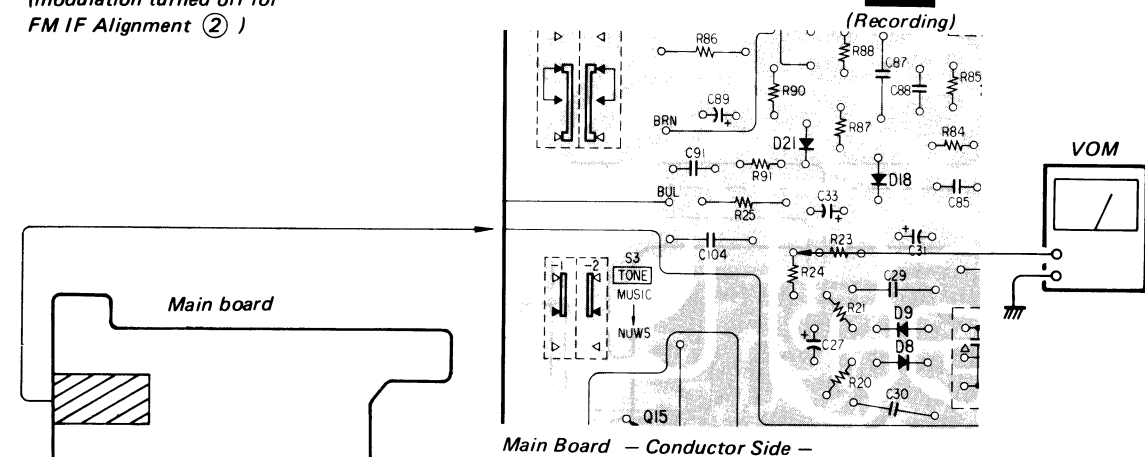
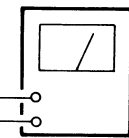
FM RF SSG



22.5kHz frequency deviation by 400Hz signal (modulation turned off for FM IF Alignment ②)

EXT. ANT

VTVM

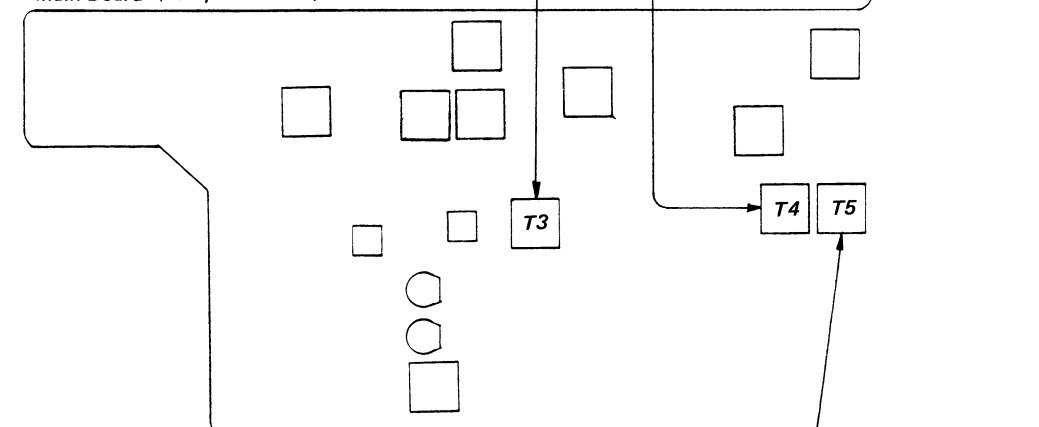
**FM IF ALIGNMENT ①**

Adjust for a maximum reading on VTVM.

T3

T4

Main Board (component side)



T5

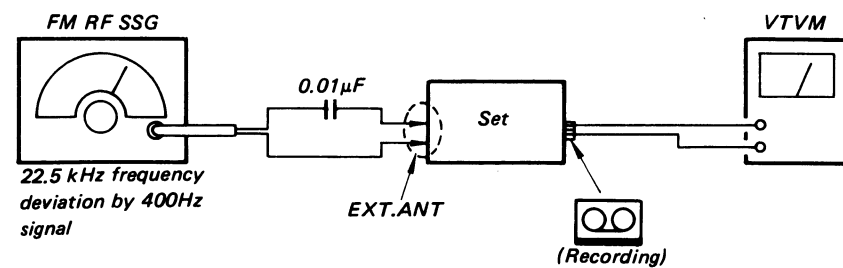
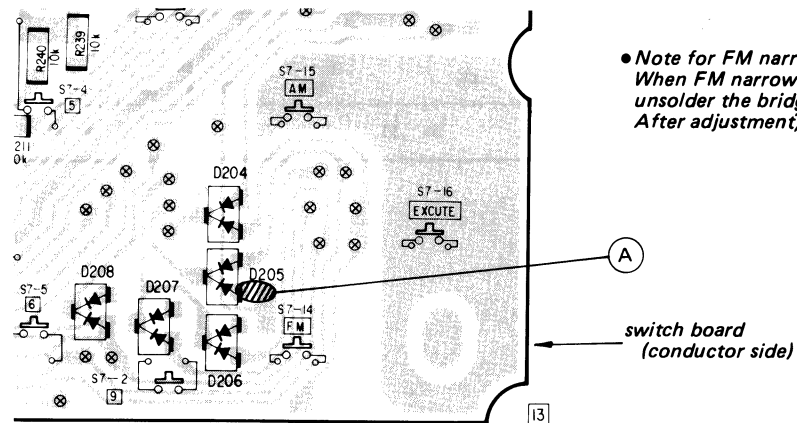
Adjust for a 0V DC. reading on VOM.

FM IF ALIGNMENT ②

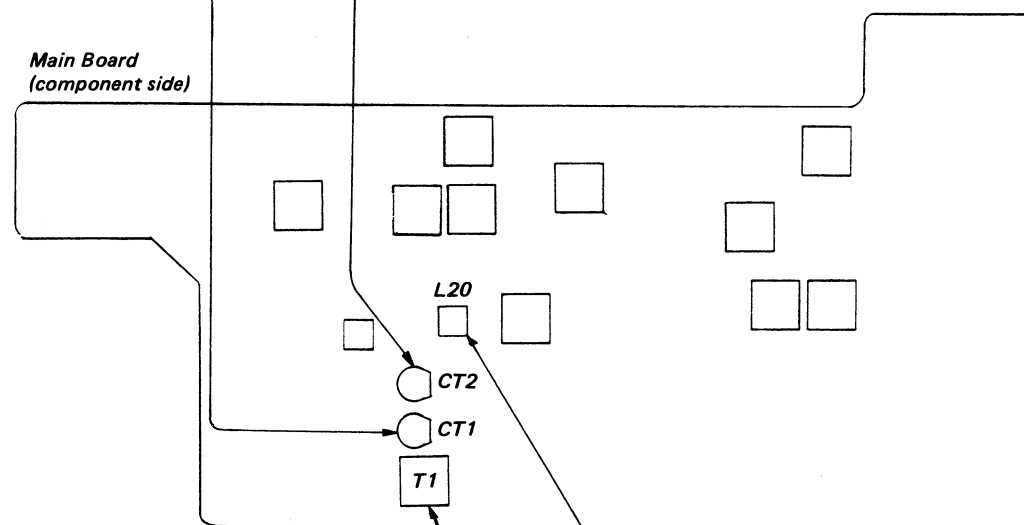
MEMO

FM TRACKING ADJUSTMENT

Main Board — Conductor Side —



FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
102.00 MHz	
CT1	CT2

Main Board
(component side)

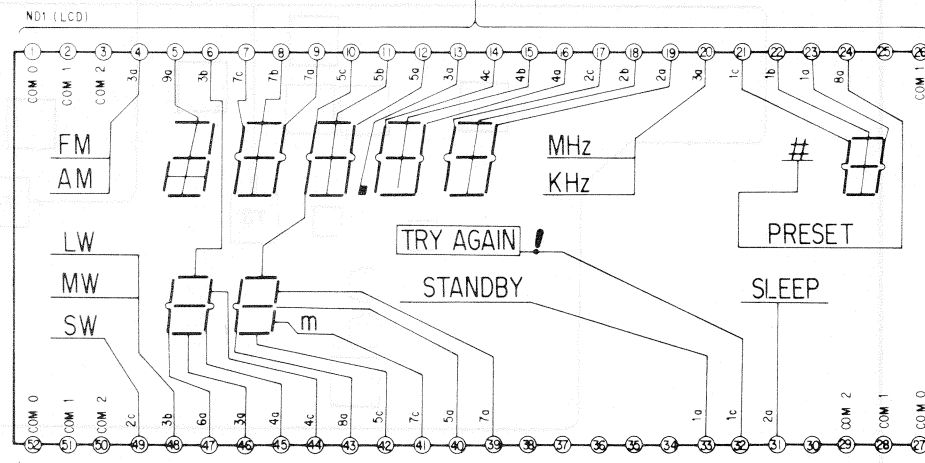
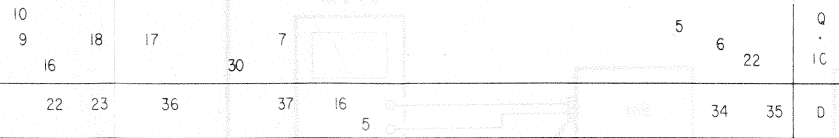
T1	L20
81.00 MHz	
Adjust for a maximum reading on VTVM.	
FM TRACKING ADJUSTMENT	

4-1. MOUNTING DIAGRAM

— Conductor Side —

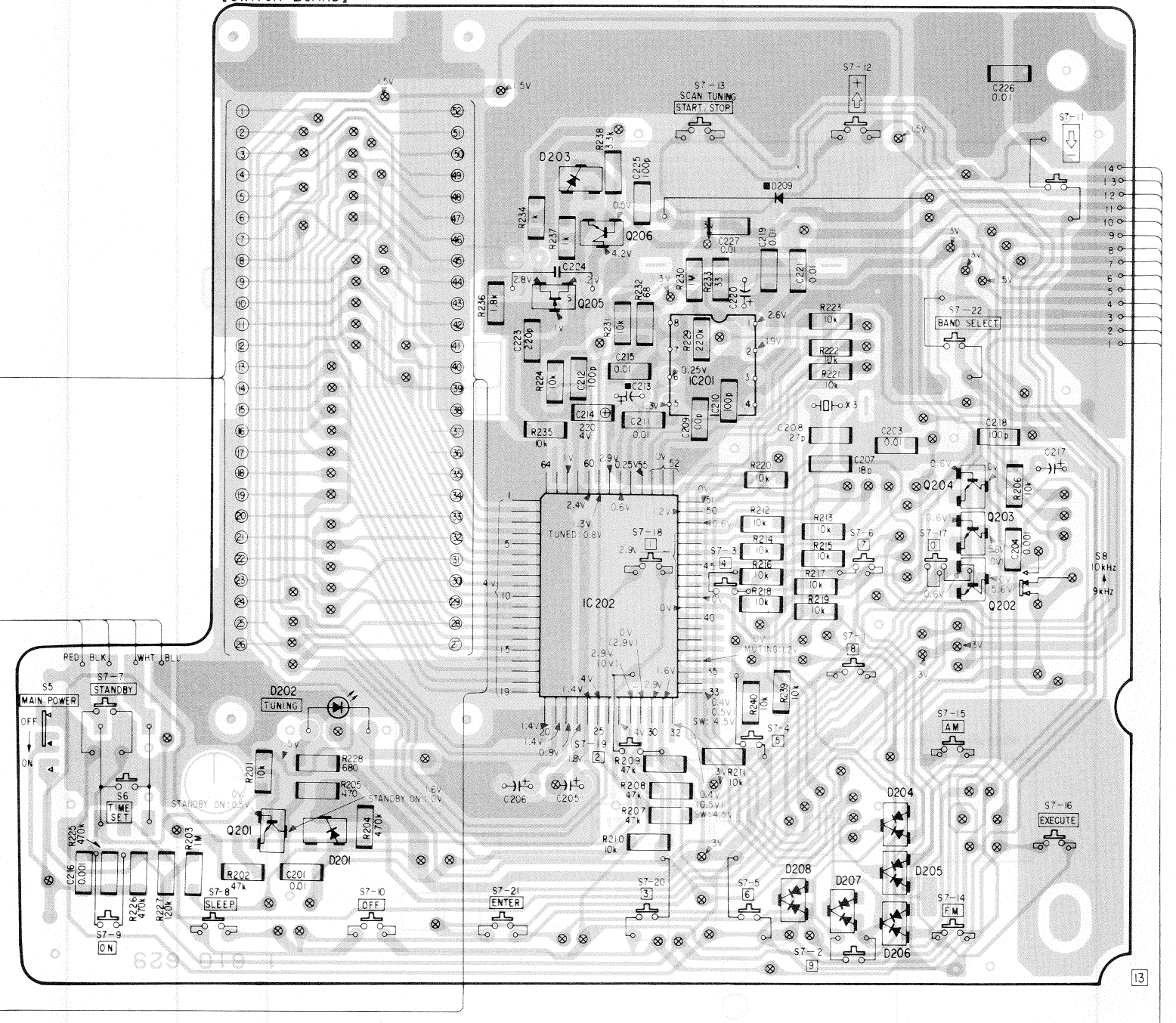
• See page 31 for semiconductor lead layouts.



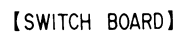


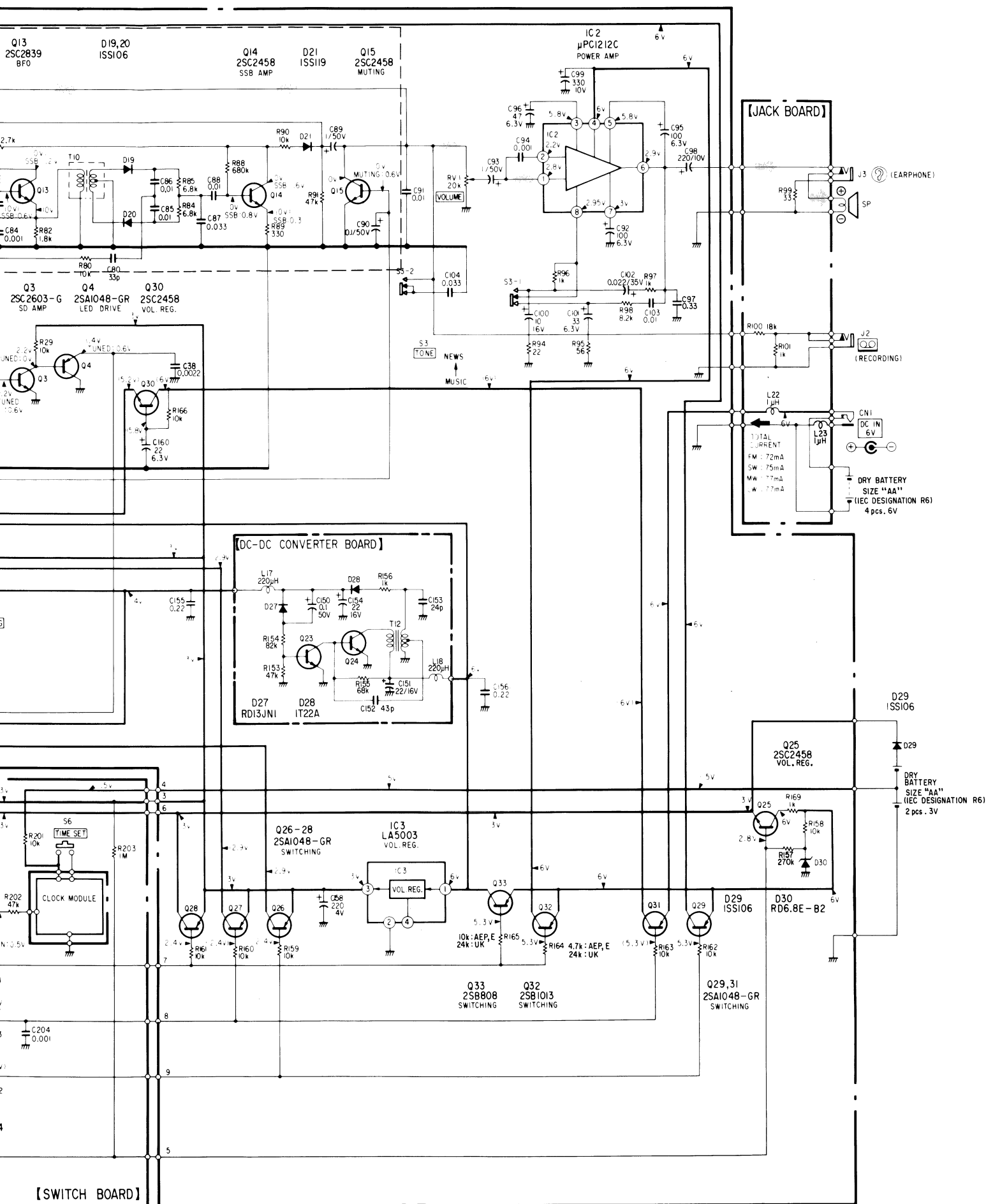
Q IC				205	206 IC202		IC201			204 203 202	Q IC
D			201		202		203			204 205 206	D

【SWITCH BOARD】



ICF-7600DS ICF-7600DS



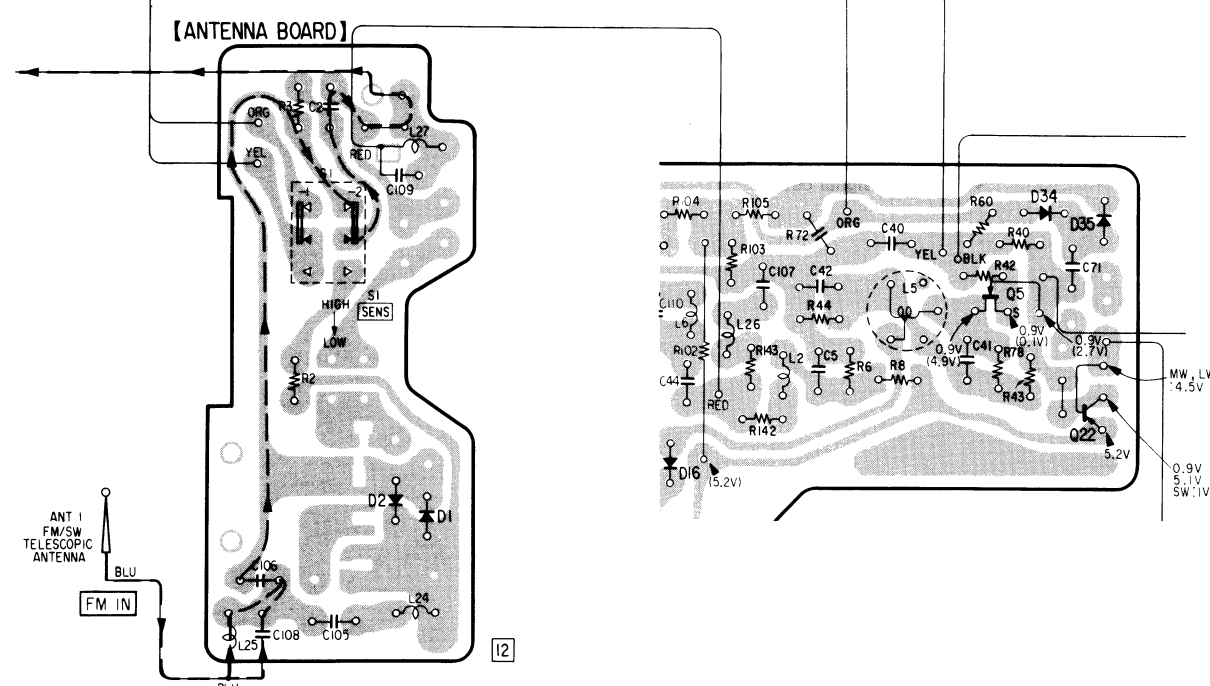
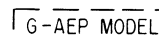
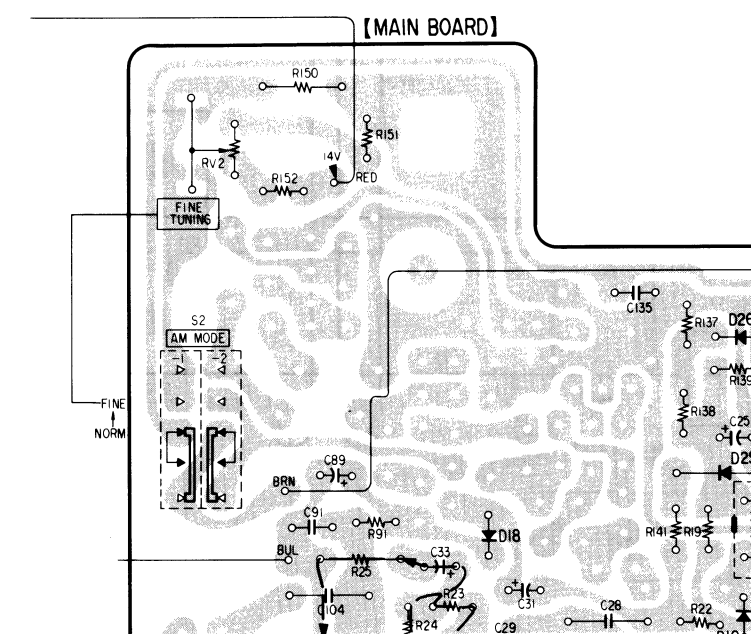
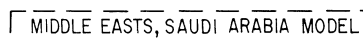
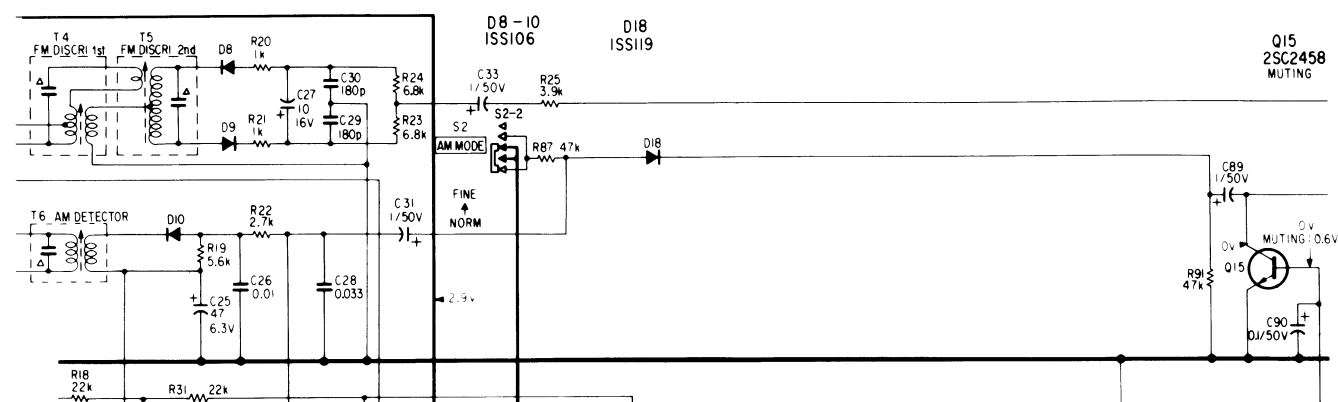
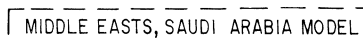
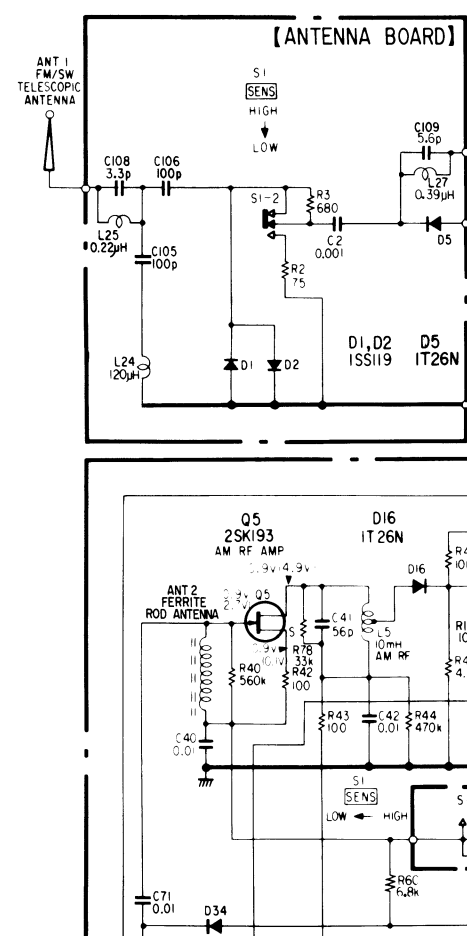
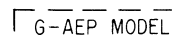


NOTE FOR SCHEMATIC DIAGRAM

- Note:**
- All capacitors are in μF unless otherwise noted. pF : μF
 - 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, 1/6W unless otherwise noted.
 - $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$
 - Δ : internal component.
 - $\square$: panel designation.
 - --- : B+ bus.
 - Readings are taken under no-signal (detuned) conditions with a VOM (50 $\text{k}\Omega/\text{V}$).
 - no mark : FM
 - () : AM
 - Switch

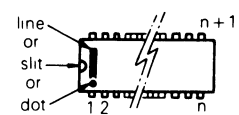
Ref. No.	Switch	Position
S1	SENS	HIGH
S2	AM MODE	NORM
S3	TONE	MUSIC
S5	MAIN POWER	OFF
S6	TIME SET	OFF
S7- 1	8 (10 key)	OFF
S7- 2	9 (10 key)	OFF
S7- 3	4 (10 key)	OFF
S7- 4	5 (10 key)	OFF
S7- 5	6 (10 key)	OFF
S7- 6	7 (10 key)	OFF
S7- 7	STANDBY	OFF
S7- 8	SLEEP	OFF
S7- 9	ON	OFF
S7-10	OFF	OFF
S7-11	UP	OFF
S7-12	DOWN	OFF
S7-13	START/STOP	OFF
S7-14	FM	OFF
S7-15	AM	OFF
S7-16	EXECUTE	OFF
S7-17	0 (10 key)	OFF
S7-18	1 (10 key)	OFF
S7-19	2 (10 key)	OFF
S7-20	3 (10 key)	OFF
S7-21	ENTER	OFF
S7-22	BAND SELECT	OFF
S8	9kHz-10kHz	9kHz

- --- : signal path

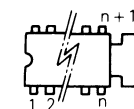


Semiconductor Lead Layouts

μ PB556C
 μ PC1018C

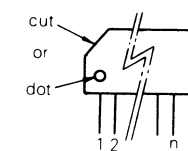


(Top view)

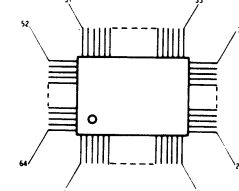
 μ PC1212C

(Top view)

LA5003

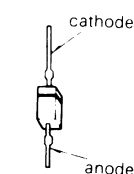


μ PD1706G-511
 μ PD1706G-519

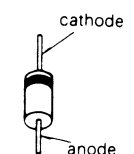


(Top view)

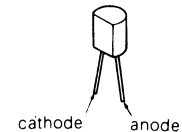
1T26N



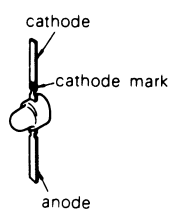
1S1555
1S106
1S119
RD6.8EB2
RD13JN1



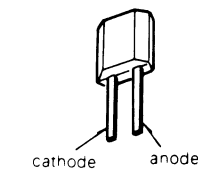
FC52M-5



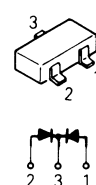
SR506D3



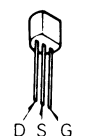
SVC201SP-BG



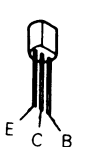
1S2837



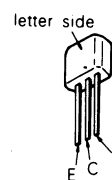
2SK152-2



2SB1013



2SD2785-F
2SC2786-K
2SC2786-L
2SD1020



2SA1048-GR
2SB808
2SC2839-D
2SC2839



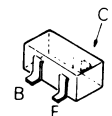
2SK184-Y
2SK184-GR



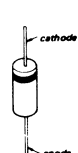
2SK193



2SC1623



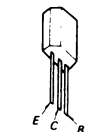
1T22A



2SK94-X2

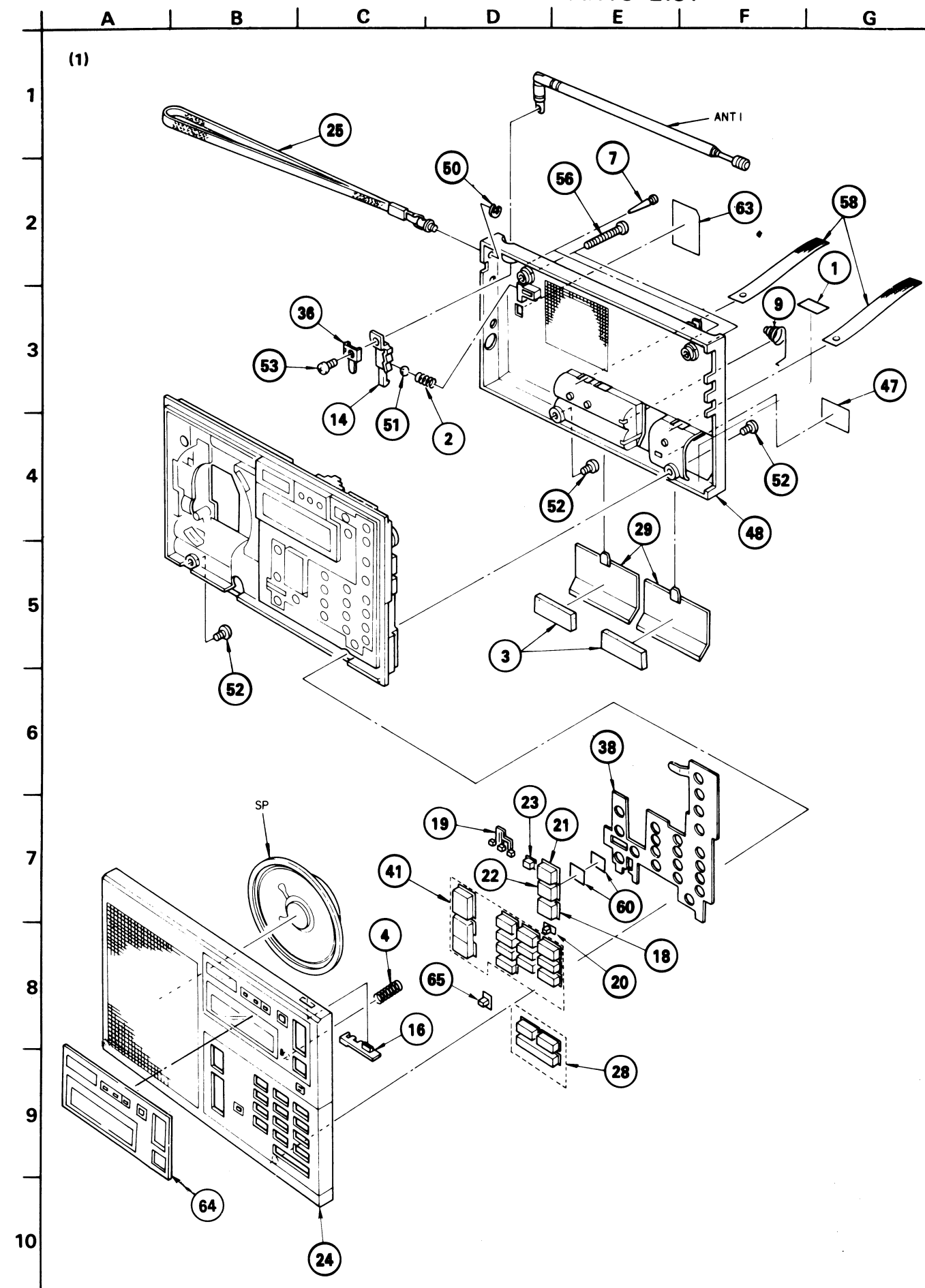


2SC634SP



SECTION 5

EXPLODED VIEWS AND PARTS LIST



ICF-7600DS



The mechanical parts with no reference number in the exploded views are not supplied.

- The construction parts of an assembled part are indicated with a collation number in the remark column.

No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-703-264-11	LABEL (B), SERIAL NUMBER		32	3-891-820-11	(AEP,UK,G-AEP,E(EXCEPT MIDDLE EASTS AND Saudi Arabia)...KNOB (MODE)	
2	3-140-063-00	SPRING, COMPRESSION			3-891-877-11	(E(MIDDLE EASTS AND Saudi Arabia)) ...KNOB (MODE)	
3	3-485-341-11	CUSHION					
4	3-891-894-01	SPRING, COMPRESSION		33	3-891-821-11	KNOB (SENS)	
5	3-885-228-00	(AEP,E,G-AEP,AUS)...CUSHION (B)		34	3-891-822-00	TERMINAL, BATTERY	
6	3-831-441-XX	SPACER, KNOB		35	3-891-823-00	SPRING (PLUS MINUS)	
7	3-880-917-00	STOPPER		36	3-891-829-00	TERMINAL BOARD, ANTENNA	
8	3-881-931-00	CUSHION, SPEAKER		37	3-891-830-00	SPRING	
9	3-883-423-00	SPRING					
10	3-883-424-00	SPRING		38	3-891-834-00	RETAINER, KNOB	
11	3-883-428-00	PLATE, TERMINAL (POSITIVE)		39	*3-891-835-00	CASE (C), SHIELD	
12	*3-884-935-00	PLATE (A), SHIELD		40	3-891-837-00	KNOB (SELECT)	
13	3-888-156-00	SCREW (1.7X4)		41	3-891-839-11	BUTTON (A)	
14	3-891-802-00	SLIDER (ANTENNA, TELESCOPIC)		42	3-891-843-11	CHASSIS	
15	3-891-803-11	KNOB (FINE)					
16	3-891-804-00	KNOB (LOCK)		43	*3-891-853-00	PLATE (D), SHIELD	
17	3-891-805-00	BUTTON (TIME SET)		44	*3-891-854-00	CASE (E), SHIELD	
18	3-891-806-11	BUTTON (C)		45	*3-891-863-00	CASE, SHIELD (H)	
19	3-891-807-00	BUTTON (D)		46	3-891-872-11	HOLDER, LED	
				47	3-891-873-00	LABEL (C)	
20	3-891-808-00	(E(SOUTH-EAST ASIANS))....BUTTON (E)		48	3-891-874-21	LID, REAR, CABINET	
	3-891-808-11	(AEP,UK,G-AEP,AUS,E(EXCEPT SOUTH-EAST ASIANS))...BUTTON (E)		49	7-623-954-01	WASHER 3, FIBER	
21	3-891-809-21	BUTTON (F)		50	7-624-104-04	STOP RING 2.0, TYPE -E	
22	3-891-809-31	BUTTON (F)		51	7-671-115-01	BALL, STEEL	
23	3-891-810-00	BUTTON (G)		52	7-682-147-15	SCREW +P 3X6	
24	X-3891-836-1	(E(Saudi Arabia)).....CABINET ASSY, FRONT		53	7-682-159-01	SCREW +P 4X5	
	X-3891-838-1	(G-AEP).....CABINET ASSY, FRONT		54	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
	X-3891-839-1	(AEP(EXCEPT FRANCE,DENMARK,NORWAY,SWEDEN), AUS,E(SOUTH-EAST ASIANS,CENTRAL/SOUTH AMERICANS,AFRICANS))..CABINET ASSY, FRONT		55	7-685-146-14	SCREW +P 3X8 TYPE2 NON-SLIT	
	X-3891-840-1	(AEP(FRANCE,DENMARK,NORWAY,SWEDEN)) CABINET ASSY, FRONT		56	7-685-152-19	SCREW +P 3X25 TYPE2 NON-SLIT	
	X-3891-841-1	(E(MIDDLE EASTS EXCEPT Saudi Arabia)) CABINET ASSY, FRONT		57	9-911-815-XX	CUSHION	
25	3-891-813-11	STRAP, HAND		58	9-911-816-02	CLOTH, BATTERY DRAWER	
26	3-891-814-00	SPRING, COMPRESSION		59	*X-3891-819-1	PLATE (L) ASSY, SHIELD	
27	3-891-815-00	HOLDER		60	*3-891-888-01	CUSHION (D)	
28	3-891-816-11	BUTTON (B)		61	*X-3891-817-0	PLATE ASSY (J), SHIELD	
29	3-891-817-21	LID, BATTERY CASE		62	*3-891-832-01	CASE (A), SHIELD	
30	3-891-818-11	KNOB (VOL)		63	*3-898-354-01	LABEL, MODEL NUMBER (E)	
31	3-891-819-11	KNOB (TONE)		64	3-891-825-21	PLATE, ORNAMENTAL	
				65	3-898-366-01	BUTTON (BS)	
				66	*3-880-474-00	CUSHION, 15X5X0.3	
				67	3-891-878-11	(G-AEP)...PLATE, BLIND	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
· Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
· If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.
RESISTORS
· All resistors are in ohms.
· F : nonflammable
COILS
· MMH : mH, UH : μH
SEMICONDUCTORS
In each case, U : μ, for example:
UA....: μA..., UPA....: μPA..., UPC....: μPC,
UPD....: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	1-535-468-00	CONDUCTOR, CONNECTOR
502	1-548-136-00	CLOCK (LIQUID CRYSTAL PANEL)
503	*1-610-625-00	PC BOARD, MAIN
504	*1-610-627-00	PC BOARD, JACK
505	*1-610-628-00	PC BOARD, ANTENNA
506	*1-610-629-00	PC BOARD, SWITCH
507	1-610-740-00	PC BOARD, JOINT
509	*A-3681-177-A	MOUNTED PCB, SWITCH (A)
510	*A-3689-045-A	(UK)....MOUNTED PCB, DC/DC CONVERTOR
	*A-3689-051-A	(AEP,E,G-AEP,AUS) ...MOUNTED PCB, DC/DC CONVERTOR
ANT1	1-501-255-31	ANTENNA, TELESCOPIC
ANT2	1-402-022-12	ANTENNA, FERRITE-ROD (LW/MW)
C2	1-161-039-00	CERAMIC 0.001MF 20% 25V
C3	1-161-043-00	(EXCEPT G-AEP).....CERAMIC 0.0022MF 20% 25V
C4	1-161-051-00	(EXCEPT G-AEP).....CERAMIC 0.01MF 20% 25V
C5	1-161-039-00	CERAMIC 0.001MF 20% 25V
C6	1-161-051-00	CERAMIC 0.01MF 20% 25V
C7	1-161-051-00	CERAMIC 0.01MF 20% 25V
C8	1-161-043-00	CERAMIC 0.0022MF 10% 25V
C9	1-161-051-00	CERAMIC 0.01MF 20% 25V
C10	1-124-638-11	ELECT 22MF 20% 6.3V
C11	1-102-935-00	CERAMIC 2PF 0.25PF 50V
C12	1-102-110-00	CERAMIC 220PF 10% 50V
C13	1-102-942-00	CERAMIC 5PF 0.5PF 50V
C14	1-161-051-00	CERAMIC 0.01MF 20% 25V
C15	1-161-051-00	CERAMIC 0.01MF 20% 25V
C16	1-101-001-00	CERAMIC 0.001MF 50V
C17	1-161-051-00	CERAMIC 0.01MF 20% 25V
C18	1-161-051-00	CERAMIC 0.01MF 20% 25V
C19	1-124-224-00	(AEP,E,G-AEP,AUS) ...ELECT 47MF 20% 6.3V
C19	1-124-432-00	(UK).....ELECT 47MF 20% 4V
C22	1-161-051-00	CERAMIC 0.01MF 20% 25V
C23	1-102-944-00	CERAMIC 7PF 0.5PF 50V
C24	1-124-638-11	ELECT 22MF 20% 6.3V
C25	1-124-224-00	ELECT 47MF 20% 6.3V
C26	1-161-051-00	CERAMIC 0.01MF 20% 25V
C27	1-123-617-00	ELECT 10MF 20% 16V
C28	1-161-057-00	CERAMIC 0.033MF 20% 25V
C29	1-102-976-00	CERAMIC 180PF 10% 50V
C30	1-102-976-00	CERAMIC 180PF 10% 50V
C31	1-123-611-00	ELECT 1MF 20% 50V
C33	1-123-611-00	ELECT 1MF 20% 50V
C35	1-161-051-00	CERAMIC 0.01MF 20% 25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C37	1-131-400-00	TANTALUM 0.047MF 20% 35V
C38	1-161-043-00	CERAMIC 0.0022MF 10% 25V
C41	1-101-884-00	CERAMIC 56PF 10% 50V
C42	1-161-051-00	CERAMIC 0.01MF 20% 25V
C43	1-161-051-00	CERAMIC 0.01MF 20% 25V
C44	1-162-113-00	CERAMIC 0.01PF 30% 16V
C47	1-161-051-00	CERAMIC 0.01MF 20% 25V
C48	1-102-942-00	CERAMIC 5PF 0.5PF 50V
C49	1-102-934-00	CERAMIC 1PF 0.25PF 50V
C50	1-161-051-00	CERAMIC 0.01MF 20% 25V
C54	1-161-051-00	CERAMIC 0.01MF 20% 25V
C55	1-161-051-00	CERAMIC 0.01MF 20% 25V
C56	1-124-224-00	ELECT 47MF 20% 6.3V
C57	1-161-051-00	CERAMIC 0.01MF 20% 25V
C58	1-124-258-00	ELECT 3.3MF 20% 50V
C61	1-102-945-00	CERAMIC 8PF 0.5PF 50V
C62	1-161-051-00	CERAMIC 0.01MF 20% 25V
C63	1-161-051-00	CERAMIC 0.01MF 20% 25V
C64	1-161-051-00	CERAMIC 0.01MF 20% 25V
C65	1-124-224-00	ELECT 47MF 20% 6.3V
C66	1-161-051-00	CERAMIC 0.01MF 20% 25V
C67	1-161-051-00	CERAMIC 0.01MF 20% 25V
C68	1-161-051-00	CERAMIC 0.01MF 20% 25V
C69	1-161-051-00	CERAMIC 0.01MF 20% 25V
C70	1-102-961-00	CERAMIC 27PF 5% 50V
C71	1-161-051-00	CERAMIC 0.01MF 20% 25V
C72	1-161-051-00	CERAMIC 0.01MF 20% 25V
C73	1-161-051-00	CERAMIC 0.01MF 20% 25V
C74	1-161-051-00	CERAMIC 0.01MF 20% 25V
C75	1-102-947-00	CERAMIC 10PF 0.5PF 50V
C76	1-102-953-00	CERAMIC 18PF 5% 50V
C77	1-102-959-00	CERAMIC 22PF 5% 50V
C80	1-102-963-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) CERAMIC 33PF 5% 50V
C81	1-161-051-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...CERAMIC 0.01MF 20% 25V
C82	1-102-973-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...CERAMIC 100PF 5% 50V
C83	1-161-043-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...CERAMIC 0.0022MF 10% 25V
C84	1-161-039-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...CERAMIC 0.001MF 20% 25V
C85	1-161-051-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...CERAMIC 0.01MF 20% 25V
C86	1-161-051-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...CERAMIC 0.01MF 20% 25V
C87	1-161-057-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...CERAMIC 0.033MF 20% 25V
C88	1-161-051-00	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...CERAMIC 0.01MF 20% 25V
C89	1-123-611-00	ELECT 1MF 20% 50V
C90	1-124-463-00	ELECT 0.1MF 20% 50V
C91	1-161-051-00	CERAMIC 0.01MF 20% 25V
C92	1-123-661-00	ELECT 100MF 20% 6.3V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C93	1-123-611-00	ELECT 1MF 20% 50V
C94	1-101-001-00	CERAMIC 0.001MF 50V
C95	1-123-661-00	ELECT 100MF 20% 6.3V
C96	1-124-224-00	ELECT 47MF 20% 6.3V
C97	1-130-774-00	FILM 0.33MF 10% 63V
C98	1-124-124-00	ELECT 220MF 20% 10V
C99	1-124-141-00	ELECT 330MF 20% 10V
C100	1-123-617-00	ELECT 10MF 20% 16V
C101	1-124-229-00	ELECT 33MF 20% 6.3V
C102	1-131-398-00	TANTALUM 0.022MF 20% 35V
C103	1-161-051-00	CERAMIC 0.01MF 20% 25V
C104	1-161-057-00	CERAMIC 0.033MF 20% 25V
C105	1-102-106-00	CERAMIC 100PF 10% 50V
C106	1-102-106-00	CERAMIC 100PF 10% 50V
C107	1-102-113-00	CERAMIC 390PF 10% 50V
C108	1-162-193-31	CERAMIC 3.3PF 10% 50V
C109	1-162-196-31	CERAMIC 5.6PF 10% 50V
C110	1-102-937-00	CERAMIC 4PF 0.25PF 50V
C120	1-161-051-00	CERAMIC 0.01MF 20% 25V
C121	1-102-951-00	CERAMIC 15PF 5% 50V
C122	1-102-934-00	CERAMIC 1PF 0.25PF 50V
C123	1-124-224-00	ELECT 47MF 20% 6.3V
C124	1-161-051-00	CERAMIC 0.01MF 20% 25V
C125	1-102-110-00	CERAMIC 220PF 10% 50V
C126	1-102-947-00	CERAMIC 10PF 0.5PF 50V
C127	1-161-057-00	CERAMIC 0.033MF 20% 25V
C128	1-102-934-00	CERAMIC 1PF 0.25PF 50V
C130	1-131-389-00	TANTALUM 10MF 10% 3.15V
C131	1-161-051-00	CERAMIC 0.01MF 20% 25V
C132	1-101-884-00	CERAMIC 56PF 10% 50V
C133	1-101-880-00	CERAMIC 47PF 10% 50V
C134	1-101-884-00	CERAMIC 56PF 10% 50V
C135	1-161-039-00	CERAMIC 0.001MF 20% 25V
C136	1-124-638-11	ELECT 22MF 20% 6.3V
C138	1-124-638-11	ELECT 22MF 20% 6.3V
C150	1-124-463-00	ELECT 0.1MF 20% 50V
C151	1-123-622-00	ELECT 22MF 20% 16V
C152	1-102-966-00	CERAMIC 43PF 5% 50V
C153	1-102-960-00	CERAMIC 24PF 5% 50V
C154	1-123-622-00	ELECT 22MF 20% 16V
C155	1-130-772-00	FILM 0.22MF 10% 63V
C156	1-130-772-00	FILM 0.22MF 10% 63V
C158	1-123-827-00	ELECT 220MF 20% 4V
C160	1-124-638-11	ELECT 22MF 20% 6.3V
C201	1-163-059-00	CERAMIC MELF 0.01MF 30% 16V
C203	1-163-059-00	CERAMIC MELF 0.01MF 30% 16V
C204	1-163-205-00	CERAMIC MELF 0.001MF 10% 50V
C205	1-124-462-00	ELECT 10MF 20% 6.3V
C206	1-124-462-00	ELECT 10MF 20% 6.3V
C207	1-163-163-00	CERAMIC MELF 18PF 5% 50V
C208	1-163-167-00	CERAMIC MELF 27PF 5% 50V
C209	1-163-181-00	CERAMIC MELF 100PF 10% 50V
C210	1-163-181-00	CERAMIC MELF 100PF 10% 50V
C211	1-163-059-00	CERAMIC MELF 0.01MF 30% 16V
C212	1-163-181-00	CERAMIC MELF 100PF 10% 50V
C213	1-131-383-00	TANTALUM 10MF 10% 6.3V
C214	1-123-827-00	ELECT 220MF 20% 4V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C215	1-163-059-00	CERAMIC MELF 0.01MF 30% 16V
C216	1-163-205-00	CERAMIC MELF 0.001MF 10% 50V
C217	1-124-438-00	ELECT 1MF 20% 50V
C218	1-163-181-00	CERAMIC MELF 100PF 10% 50V
C219	1-163-059-00	CERAMIC MELF 0.01MF 30% 16V
C220	1-131-383-00	TANTALUM 10MF 10% 6.3V
C221	1-163-059-00	CERAMIC MELF 0.01MF 30% 16V
C223	1-163-189-00	CERAMIC MELF 220PF 10% 50V
C224	1-130-832-00	FILM 0.68MF 10% 63V
C225	1-163-181-00	CERAMIC MELF 100PF 10% 50V
C226	1-163-205-00	CERAMIC MELF 0.001MF 10% 50V
C227	1-163-059-00	CERAMIC MELF 0.01MF 30% 16V
CF1	1-527-795-71	FILTER, CERAMIC
CF2	1-527-795-71	FILTER, CERAMIC
CF3	1-567-106-00	FILTER, CERAMIC
CF4	1-567-107-00	FILTER, CERAMIC
CN1	1-507-954-11	JACK, EXTERNAL POWER
CNJ1	1-562-283-00	SOCKET, CONNECTOR 14P
CT1	1-141-232-00	CAP, TRIMMER
CT2	1-141-232-00	CAP, TRIMMER
D1	8-719-911-19	DIODE 1SS119
D2	8-719-911-19	DIODE 1SS119
D5	8-719-104-15	DIODE 1T26N
D6	8-719-907-19	DIODE FC52M-5
D7	8-719-907-19	DIODE FC52M-5
D8	8-719-911-06	DIODE 1SS106
D9	8-719-911-06	DIODE 1SS106
D10	8-719-911-06	DIODE 1SS106
D11	8-719-911-19	DIODE 1SS119
D13	8-719-911-06	DIODE 1SS106
D14	8-719-911-06	DIODE 1SS106
D15	8-719-911-19	DIODE 1SS119
D16	8-719-104-15	DIODE 1T26N
D18	8-719-911-19	DIODE 1SS119
D19	8-719-911-06	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...DIODE 1SS106
D20	8-719-911-06	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...DIODE 1SS106
D21	8-719-815-55	(E(EXCEPT MIDDLE EASTS AND SaudiArabia)) ...DIODE 1SS1555
D22	8-719-815-55	DIODE 1S1555
D23	8-719-907-19	DIODE FC52M-5
D24	8-719-912-03	DIODE SVC201SP-BG
D25	8-719-911-19	DIODE 1SS119
D26	8-719-911-19	DIODE 1SS119
D27	8-719-103-57	DIODE RD13JN1
D28	8-719-022-21	DIODE 1T22A
D29	8-719-911-06	DIODE 1SS106
D30	8-719-100-41	DIODE RD6.8EB2
D31	8-719-911-19	DIODE 1SS119
D32	8-719-911-19	DIODE 1SS119
D33	8-719-911-19	DIODE 1SS119
D34	8-719-911-19	DIODE 1SS119
D35	8-719-911-19	DIODE 1SS119
D36	8-719-911-19	DIODE 1SS119
D37	8-719-911-19	DIODE 1SS119
D201	8-719-100-05	DIODE 1S2837
D202	8-719-104-37	DIODE SR506D3
D203	8-719-100-05	DIODE 1S2837
D204	8-719-100-05	DIODE 1S2837

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D205	8-719-100-05	DIODE 1S2837
D206	8-719-100-05	DIODE 1S2837
D207	8-719-100-05	DIODE 1S2837
D208	8-719-100-05	DIODE 1S2837
IC1	8-759-110-15	IC UPC1018C
IC2	8-759-100-17	IC UPC1212C
IC3	8-759-800-27	IC LA5003
IC201	8-759-100-63	IC UPB556C
IC202	8-759-101-11	(AEP,UK,G-AEP,AUS, E(EXCEPT Saudi Arabia))...IC UPD1706G-511
IC202	8-759-102-71	(E(Saudi Arabia))....IC UPD1706G-519
J1	1-507-853-00	(AEP,UK,AUS,E)...JACK (EXT ANT)
J2	1-507-527-00	JACK, EARPHONE (RECORDING)
J3	1-507-527-00	JACK, EARPHONE
L1	1-408-560-00	(EXCEPT G-AEP)...MICRO INDUCTOR 5.6UH
L2	1-408-563-00	MICRO INDUCTOR 10UH
L3	1-407-882-00	COIL
L4	1-408-571-00	MICRO INDUCTOR 47UH
L5	1-426-137-00	TRANSFORMER, HF
L6	1-408-900-11	MICRO INDUCTOR 0.82UH
L7	1-408-555-00	MICRO INDUCTOR 2.2UH
L8	1-408-555-00	MICRO INDUCTOR 2.2UH
L11	1-408-560-00	MICRO INDUCTOR 5.6UH
L12	1-422-135-00	COIL, AIR-CORE (RF)
L14	1-408-901-11	MICRO INDUCTOR 0.56UH
L15	1-408-562-00	MICRO INDUCTOR 8.2UH
L16	1-408-903-11	MICRO INDUCTOR 0.39UH
L17	1-408-579-00	MICRO INDUCTOR 220UH
L18	1-408-579-00	MICRO INDUCTOR 220UH
L19	1-426-158-00	COIL (RF)
L20	1-459-475-00	COIL (WITH CORE)
L21	1-408-557-00	(EXCEPT G-AEP)...MICRO INDUCTOR 3.3UH
L22	1-407-882-00	COIL
L23	1-407-882-00	COIL
L24	1-408-576-00	MICRO INDUCTOR 120UH
L26	1-408-574-00	MICRO INDUCTOR 82UH
L27	1-408-903-11	MICRO INDUCTOR 0.39UH
ND1	1-806-646-00	DISPLAY PANEL, LIQUID CRYSTAL
Q1	8-729-119-32	TRANSISTOR 2SK193
Q2	8-729-178-62	(CHOICE)...TRANSISTOR 2SC2786-L
Q2	8-729-178-63	(CHOICE)...TRANSISTOR 2SC2786-K
Q3	8-729-600-27	TRANSISTOR 2SC634SP
Q4	8-729-204-83	TRANSISTOR 2SA1048-GR
Q5	8-729-119-32	TRANSISTOR 2SK193
Q6	8-729-204-83	(EXCEPT G-AEP)...TRANSISTOR 2SA1048-GR
Q7	8-729-162-00	TRANSISTOR 2SK152-2
Q8	8-729-178-54	TRANSISTOR 2SC2785-F
Q9	8-729-162-00	TRANSISTOR 2SK152-2
Q10	8-729-162-00	TRANSISTOR 2SK152-2
Q11	8-729-162-00	TRANSISTOR 2SK152-2
Q12	8-729-883-91	TRANSISTOR 2SC2839-D
Q13	8-729-883-92	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia))...TRANSISTOR 2SC2839
Q14	8-729-600-27	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia))...TRANSISTOR 2SC634SP
Q15	8-729-600-27	TRANSISTOR 2SC634SP
Q16	8-729-178-62	TRANSISTOR 2SC2786-L
Q17	8-729-178-62	TRANSISTOR 2SC2786-L

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q18	8-729-178-62	TRANSISTOR 2SC2786-L
Q19	8-729-178-63	TRANSISTOR 2SC2786-K
Q20	8-729-204-83	TRANSISTOR 2SA1048-GR
Q21	8-729-204-83	TRANSISTOR 2SA1048-GR
Q22	8-729-204-83	TRANSISTOR 2SA1048-GR
Q23	8-729-600-27	TRANSISTOR 2SC634SP
Q24	8-729-102-03	TRANSISTOR 2SD1020
Q25	8-729-600-27	TRANSISTOR 2SC634SP
Q26	8-729-204-83	TRANSISTOR 2SA1048-GR
Q27	8-729-204-83	TRANSISTOR 2SA1048-GR
Q28	8-729-204-83	TRANSISTOR 2SA1048-GR
Q29	8-729-204-83	TRANSISTOR 2SA1048-GR
Q30	8-729-600-27	TRANSISTOR 2SC634SP
Q31	8-729-204-83	TRANSISTOR 2SA1048-GR
Q32	8-729-801-83	TRANSISTOR 2SB1013
Q33	8-729-800-83	TRANSISTOR 2SB808
Q34	8-729-218-42	(CHOICE)...TRANSISTOR 2SK184-Y
Q34	8-729-218-43	(CHOICE)...TRANSISTOR 2SK184-GR
Q201	8-729-100-66	TRANSISTOR 2SC1623
Q202	8-729-100-66	TRANSISTOR 2SC1623
Q203	8-729-100-66	TRANSISTOR 2SC1623
Q204	8-729-100-66	TRANSISTOR 2SC1623
Q205	8-729-109-42	TRANSISTOR 2SK94-X2
Q206	8-729-100-66	TRANSISTOR 2SC1623
R1	1-249-437-11	(EXCEPT G-AEP) ...CARBON 47K 5% 1/6W
R2	1-215-394-00	CARBON 75 1/6W
R3	1-249-415-11	CARBON 680 5% 1/6W
R4	1-247-809-00	(EXCEPT G-AEP) ...CARBON 120 5% 1/6W
R5	1-249-419-11	(EXCEPT G-AEP) ...CARBON 1.5K 5% 1/6W
R6	1-249-424-11	CARBON 3.9K 5% 1/6W
R8	1-249-429-11	CARBON 10K 5% 1/6W
R9	1-249-417-11	CARBON 1K 5% 1/6W
R10	1-249-441-11	CARBON 100K 5% 1/6W
R11	1-247-891-00	CARBON 330K 5% 1/6W
R12	1-215-493-00	CARBON 1M 5% 1/6W
R13	1-249-411-11	CARBON 330 5% 1/6W
R14	1-215-478-00	(CHOICE)...CARBON 240K 5% 1/6W
R14	1-247-893-00	(CHOICE)...CARBON 390K 5% 1/6W
R15	1-249-423-11	CARBON 3.3K 5% 1/6W
R16	1-249-414-11	CARBON 560 5% 1/6W
R17	1-249-429-11	CARBON 10K 5% 1/6W
R18	1-249-433-11	CARBON 22K 5% 1/6W
R19	1-247-849-00	CARBON 5.6K 5% 1/6W
R20	1-249-417-11	CARBON 1K 5% 1/6W
R21	1-249-417-11	CARBON 1K 5% 1/6W
R22	1-249-422-11	CARBON 2.7K 5% 1/6W
R23	1-249-427-11	CARBON 6.8K 5% 1/6W
R24	1-249-427-11	CARBON 6.8K 5% 1/6W
R25	1-249-424-11	CARBON 3.9K 5% 1/6W
R26	1-249-417-11	CARBON 1K 5% 1/6W
R27	1-249-417-11	CARBON 1K 5% 1/6W
R28	1-247-893-00	CARBON 390K 5% 1/6W
R29	1-249-429-11	CARBON 10K 5% 1/6W
R30	1-249-429-11	CARBON 10K 5% 1/6W
R31	1-249-433-11	CARBON 22K 5% 1/6W
R32	1-247-881-00	CARBON 120K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R33	1-249-417-11	CARBON	1K	5%	1/6W
R39	1-249-401-11	CARBON	47	5%	1/6W
R40	1-215-487-00	CARBON	560K	5%	1/6W
R42	1-249-405-11	CARBON	100	5%	1/6W
R43	1-249-405-11	CARBON	100	5%	1/6W
R44	1-247-895-00	CARBON	470K	5%	1/6W
R45	1-249-425-11	CARBON	4.7K	5%	1/6W
R46	1-249-429-11	CARBON	10K	5%	1/6W
R48	1-249-441-11	CARBON	100K	5%	1/6W
R49	1-249-411-11	CARBON	330	5%	1/6W
R50	1-249-399-11	CARBON	33	5%	1/6W
R51	1-249-405-11	CARBON	100	5%	1/6W
R52	1-249-415-11	CARBON	680	5%	1/6W
R55	1-249-422-11	CARBON	2.7K	5%	1/6W
R56	1-249-423-11	CARBON	3.3K	5%	1/6W
R57	1-249-405-11	CARBON	100	5%	1/6W
R58	1-249-405-11	CARBON	100	5%	1/6W
R59	1-249-417-11	CARBON	1K	5%	1/6W
R60	1-249-418-11	CARBON	1.2K	5%	1/6W
R61	1-249-437-11	CARBON	47K	5%	1/6W
R62	1-249-435-11	CARBON	33K	5%	1/6W
R64	1-249-433-11	CARBON	22K	5%	1/6W
R66	1-249-424-11	CARBON	3.9K	5%	1/6W
R67	1-249-405-11	CARBON	100	5%	1/6W
R68	1-249-417-11	CARBON	1K	5%	1/6W
R69	1-249-425-11	CARBON	4.7K	5%	1/6W
R70	1-249-436-11	CARBON	39K	5%	1/6W
R71	1-249-435-11	CARBON	33K	5%	1/6W
R72	1-249-402-11	CARBON	56	5%	1/6W
R73	1-249-411-11	CARBON	330	5%	1/6W
R74	1-249-411-11	CARBON	330	5%	1/6W
R75	1-249-417-11	CARBON	1K	5%	1/6W
R77	1-249-405-11	CARBON	100	5%	1/6W
R78	1-249-435-11	CARBON	33K	5%	1/6W
R80	1-249-429-11	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	10K	5%	1/6W
R81	1-215-479-00	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	270K	5%	1/6W
R82	1-249-420-11	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	1.8K	5%	1/6W
R83	1-249-425-11	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	4.7K	5%	1/6W
R84	1-249-427-11	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	6.8K	5%	1/6W
R85	1-249-427-11	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	6.8K	5%	1/6W
R86	1-249-422-11	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	2.7K	5%	1/6W
R87	1-249-437-11	CARBON	47K	5%	1/6W
R88	1-215-489-00	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	680K	5%	1/6W
R89	1-249-411-11	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	330	5%	1/6W
R90	1-249-429-11	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...CARBON	10K	5%	1/6W
R91	1-249-437-11	CARBON	47K	5%	1/6W
R94	1-249-397-11	CARBON	22	5%	1/6W
R95	1-249-402-11	CARBON	56	5%	1/6W
R96	1-249-417-11	CARBON	1K	5%	1/6W
R97	1-249-417-11	CARBON	1K	5%	1/6W
R98	1-249-428-11	CARBON	8.2K	5%	1/6W
R99	1-249-399-11	CARBON	33	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R100	1-249-432-11	CARBON	18K	5%	1/6W
R101	1-249-417-11	CARBON	1K	5%	1/6W
R102	1-249-429-11	CARBON	10K	5%	1/6W
R103	1-249-423-11	CARBON	3.3K	5%	1/6W
R104	1-249-417-11	CARBON	1K	5%	1/6W
R105	1-249-429-11	CARBON	10K	5%	1/6W
R119	1-249-409-11	CARBON	220	5%	1/6W
R120	1-249-410-11	CARBON	270	5%	1/6W
R121	1-249-438-11	CARBON	56K	5%	1/6W
R122	1-249-399-11	CARBON	33	5%	1/6W
R123	1-249-418-11	CARBON	1.2K	5%	1/6W
R124	1-249-409-11	CARBON	220	5%	1/6W
R125	1-249-415-11	CARBON	680	5%	1/6W
R126	1-249-429-11	CARBON	10K	5%	1/6W
R127	1-249-438-11	CARBON	56K	5%	1/6W
R128	1-249-405-11	CARBON	100	5%	1/6W
R129	1-249-439-11	CARBON	68K	5%	1/6W
R130	1-249-419-11	CARBON	1.5K	5%	1/6W
R131	1-249-441-11	CARBON	100K	5%	1/6W
R132	1-249-405-11	CARBON	100	5%	1/6W
R133	1-249-423-11	CARBON	3.3K	5%	1/6W
R134	1-249-423-11	CARBON	3.3K	5%	1/6W
R135	1-249-413-11	CARBON	470	5%	1/6W
R136	1-249-424-11	CARBON	3.9K	5%	1/6W
R137	1-249-422-11	CARBON	2.7K	5%	1/6W
R138	1-215-436-00	CARBON	4.3K	5%	1/6W
R139	1-249-419-11	CARBON	1.5K	5%	1/6W
R141	1-249-433-11	CARBON	22K	5%	1/6W
R142	1-249-419-11	CARBON	1.5K	5%	1/6W
R143	1-249-409-11	CARBON	220	5%	1/6W
R150	1-215-458-00	CARBON	36K	5%	1/6W
R151	1-215-452-00	CARBON	20K	5%	1/6W
R152	1-215-458-00	CARBON	36K	5%	1/6W
R153	1-249-437-11	CARBON	47K	5%	1/6W
R154	1-249-440-11	CARBON	82K	5%	1/6W
R155	1-249-439-11	CARBON	68K	5%	1/6W
R156	1-249-417-11	CARBON	1K	5%	1/6W
R157	1-215-479-00	CARBON	270K	5%	1/6W
R158	1-249-429-11	CARBON	10K	5%	1/6W
R159	1-249-429-11	CARBON	10K	5%	1/6W
R160	1-249-429-11	CARBON	10K	5%	1/6W
R161	1-249-429-11	CARBON	10K	5%	1/6W
R162	1-249-429-11	CARBON	10K	5%	1/6W
R163	1-249-429-11	CARBON	10K	5%	1/6W
R164	1-249-425-11	(UK)...CARBON	4.7K	5%	1/6W
R165	1-249-429-11	(UK)...CARBON	10K	5%	1/6W
R166	1-249-429-11	CARBON	10K	5%	1/6W
R167	1-249-416-11	(CHOICE)...CARBON	820	5%	1/4W
R167	1-249-419-11	(CHOICE)...CARBON	1.5K	5%	1/4W
R168	1-249-409-11	(EXCEPT G-AEP) ...CARBON	220	5%	1/6W
R169	1-249-417-11	CARBON	1K	5%	1/6W
R201	1-249-429-11	CARBON MELF	10K	5%	1/5W
R202	1-249-437-11	CARBON MELF	47K	5%	1/5W
R203	1-215-493-00	CARBON MELF	1M	5%	1/5W
R204	1-215-485-00	CARBON MELF	470K	5%	1/5W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R205	1-215-485-00	CARBON MELF 470K 5% 1/5W
R206	1-249-429-11	CARBON MELF 10K 5% 1/5W
R207	1-249-437-11	CARBON MELF 47K 5% 1/5W
R208	1-249-437-11	CARBON MELF 47K 5% 1/5W
R209	1-249-437-11	CARBON MELF 47K 5% 1/5W
R210	1-249-429-11	CARBON MELF 10K 5% 1/5W
R211	1-249-429-11	CARBON MELF 10K 5% 1/5W
R212	1-249-429-11	CARBON MELF 10K 5% 1/5W
R213	1-249-429-11	CARBON MELF 10K 5% 1/5W
R214	1-249-429-11	CARBON MELF 10K 5% 1/5W
R215	1-249-429-11	CARBON MELF 10K 5% 1/5W
R216	1-249-429-11	CARBON MELF 10K 5% 1/5W
R217	1-249-429-11	CARBON MELF 10K 5% 1/5W
R218	1-249-429-11	CARBON MELF 10K 5% 1/5W
R219	1-249-429-11	CARBON MELF 10K 5% 1/5W
R220	1-249-429-11	CARBON MELF 10K 5% 1/5W
R221	1-249-429-11	CARBON MELF 10K 5% 1/5W
R222	1-249-429-11	CARBON MELF 10K 5% 1/5W
R223	1-249-429-11	CARBON MELF 10K 5% 1/5W
R224	1-249-429-11	CARBON MELF 10K 5% 1/5W
R225	1-215-485-00	CARBON MELF 470K 5% 1/5W
R226	1-215-485-00	CARBON MELF 470K 5% 1/5W
R227	1-215-471-00	CARBON MELF 120K 5% 1/5W
R228	1-249-035-00	CARBON MELF 680 5% 1/5W
R229	1-215-471-00	CARBON MELF 120K 5% 1/5W
R230	1-215-493-00	CARBON MELF 1M 5% 1/5W
R231	1-249-429-11	CARBON MELF 10K 5% 1/5W
R232	1-249-403-11	CARBON MELF 68 5% 1/5W
R233	1-249-399-11	CARBON MELF 33 5% 1/5W
R234	1-249-417-11	CARBON MELF 1K 5% 1/5W
R235	1-249-429-11	CARBON MELF 10K 5% 1/5W
R236	1-249-420-11	CARBON MELF 1.8K 5% 1/5W
R237	1-249-417-11	CARBON MELF 1K 5% 1/5W
R238	1-249-423-11	CARBON MELF 3.3K 5% 1/5W
R239	1-249-429-11	CARBON MELF 10K 5% 1/5W
R240	1-249-429-11	CARBON MELF 10K 5% 1/5W
RV1	1-230-042-00	RES. VAR. SLIDE 20K (VOLUME)
RV2	1-230-065-00	RES. VAR. CARBON 100K (FINE TUNING)
S1	1-554-462-00	SWITCH, SLIDE (SENS)
S2	1-553-989-00	SWITCH, SLIDE (AM MODE)
S3	1-554-078-00	SWITCH, SLIDE (TONE)
S5	1-553-510-00	SWITCH, SLIDE (MAIN POWER)
S6	1-554-371-00	SWITCH, TACT (TIME SET)
S7	1-554-604-00	SWITCH, RUBBER KEY
S8	1-553-977-00	SWITCH, SLIDE (9kHz/10kHz)
SP	1-503-382-11	SPEAKER (77MM DIA)

ELECTRICAL PARTS

Ref.No.	Part No.	Description
T1	1-459-458-00	COIL (WITH CORE): FM ANT
T3	1-404-126-00	IFT (SMALL TYPE): FM MIX
T4	1-404-130-00	TRANSFORMER, DISCRI: FM 1st
T5	1-404-131-00	TRANSFORMER, DISCRI: FM 2nd
T6	1-404-127-00	IFT (SMALL TYPE): AM DET
T7	1-426-136-00	TRANSFORMER, HF
T8	1-404-448-00	TRANSFORMER, IF: AM 1st
T9	1-404-191-00	TRANSFORMER, IF: AM 2nd
T10	1-404-447-00	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...TRANSFORMER, IF
T11	1-406-052-00	COIL (OSC): 2nd LOCAL
T12	1-405-865-00	COIL, OSCILLATOR
X1	1-567-108-00	VIBRATOR, CRYSTAL: 55.405MHz
X2	1-567-105-00	(E(EXCEPT MIDDLE EASTS AND Saudi Arabia)) ...OSCILLATOR, CERAMIC: 450kHz
X3	1-567-109-00	VIBRATOR, CRYSTAL: 150kHz
XF1	1-527-372-00	(OLD)...FILTER, CRYSTAL
XF1	1-567-922-00	(NEW)...FILTER, CRYSTAL

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
101	1-463-659-11	(AEP,G-AEP,E)...ADAPTOR, AC (AC-240)
102	1-501-381-11	ANTENNA (WIRE)
103	1-504-059-11	MAGNETIC EARPHONE (ME-20H)
104	1-463-455-13	(UK).....ADAPTOR, AC
	1-506-443-00	(AEP,UK,AUS,E)...ADAPTOR, PLUG
105	3-701-616-00	BAG, POLYETHYLENE
106	3-898-374-01	CUSHION
107	3-701-629-00	(AEP,G-AEP,E,UK)...BAG, POLYETHYLENE
108	3-898-375-01	HOLDER
109	3-887-285-07	(E(MIDDLE EASTS AND Saudi Arabia)) ...BOOK, GUIDE, WAVE
	3-893-802-04	(AEP,UK,G-AEP,AUS,E(EXCEPT MIDDLE EASTS AND Saudi Arabia))...BOOK, GUIDE, WAVE
110	3-890-830-00	BAG, POLYETHYLENE
111	3-890-124-00	BAG, CARRYING
112	A-3604-135-A	(AEP,UK,AUS,E)...ANTENNA ASSY, COMPACT
	A-3604-136-A	(G-AEP).....ANTENNA ASSY, COMPACT
113	3-898-367-01	INDIVIDUAL CARTON
114	3-995-966-11	(AEP,UK,G-AEP,AUS,E(EXCEPT MIDDLE EASTS AND Saudi Arabia))...MANUAL, INSTRUCTION
	3-995-966-41	(G-AEP).....MANUAL, INSTRUCTION
	3-995-966-61	(AEP).....MANUAL, INSTRUCTION
	3-995-966-73	(E(MIDDLE EASTS AND Saudi Arabia)) MANUAL, INSTRUCTION
115	3-764-461-01	(G-AEP).....INSTRUCTION
	3-993-343-11	(G-AEP).....INSTRUCTION
	3-993-344-11	(AUS).....INSTRUCTION
116	1-506-409-00	(E(Saudi Arabia,CENTRAL/SOUTH AMERICANS, SOUTH-EAST ASIANS)) ...ADAPTOR,CONVERSION))
117	1-528-137-00	(AUS)...PACK, BATTERY (EBP-6)